

**Datasheet for 600-401-BY6****IPAF Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-IPAF (RABBIT) Antibody - 600-401-BY6 |
| <b>Item No.:</b>     | 600-401-BY6                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human                                     |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adaptor molecules and proteases including several members of the caspase family. Another family of proteins that functions as a critical regulator of apoptosis and NFκ signaling pathways is the CED-4/Apaf-1 (apoptosis protein activating factor-1) protein family. Ipaf (ICE protease activating factor) is a CED-4/Apaf-1 family member that activates caspase-1/ICE and can induce apoptosis in human cells in a caspase-1 dependent manner. Ipaf and caspase-1 are thought to interact with each other through the association of the Ipaf amino-terminal CARD (caspase recruitment domain) and amino-terminal CARD of caspase-1. |
| <b>Synonyms:</b>     | IPAF Antibody, CLAN, CLAN1, CLANA, CLANB, CLANC, CLAND, CARD12, CLR2.1, CLAN, UNQ6189/PRO20215, NLR family CARD domain-containing protein 4, CARD, LRR, and NACHT-containing protein, Clan protein, ICE-Protease Activating Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | NLRC4              |
| <b>Reactivity:</b>     | Human              |
| <b>Immunogen Type:</b> | Conjugated Peptide |

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-Ipaf antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the C-terminus of human Ipaf. |
| <b>Purity/Specificity:</b> | Anti-Ipaf Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Ipaf from other sources has not been determined.       |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q9NPP4</a></li><li>• <a href="#">GeneID - 58484</a></li><li>• <a href="#">NCBI - NP_067032</a></li></ul>            |

## Application Details

|                             |                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IF, IHC, WB                                                                                                                                                                                                                                                                       |
| <b>Application Note:</b>    | Anti-Ipaf Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 116 kDa in Western Blots of specific cell lysates and tissues. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                          |
| <b>ELISA:</b>               | 1:10,000 - 1:20,000                                                                                                                                                                                                                                                                      |
| <b>IF:</b>                  | 10 µg/mL                                                                                                                                                                                                                                                                                 |
| <b>WB:</b>                  | 1-2 µg/mL                                                                                                                                                                                                                                                                                |

## Formulation

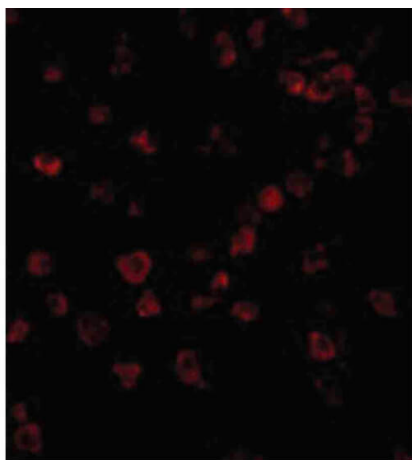
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                      |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

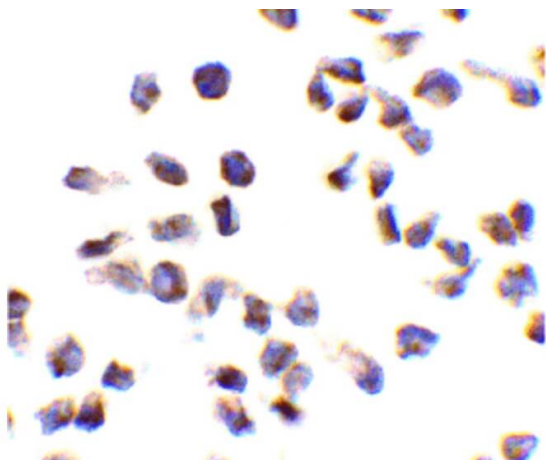
|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

**Expiration:**

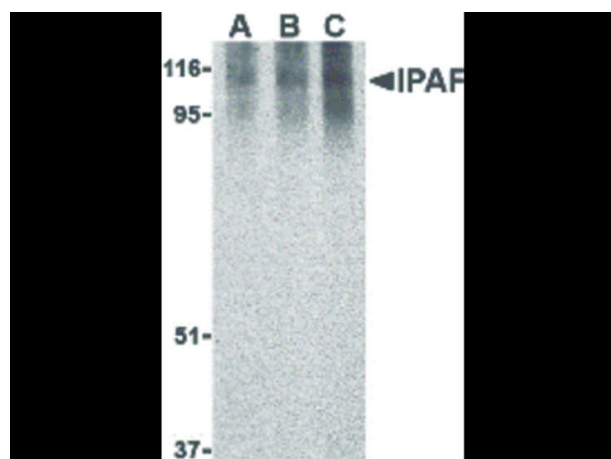
Expiration date is one (1) year from date of receipt.

**Images****Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Ipaf antibody. Cell Type: THP1 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Ipaf antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Ipaf is cytoplasmic. Staining: Ipaf as red fluorescent signal.

**Immunohistochemistry**

Immunocytochemistry of Ipaf antibody. Cell Type: THP-1 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Ipaf antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Ipaf is cytoplasmic. Staining: Ipaf is stained brown with hematoxylin purple counterstain.



#### Western Blot

Western Blot of Ipaf antibody. Lane A: human PBL lysate at 0.5 µg/ml. Lane B: human PBL lysate at 1 µg/ml. Lane C: human PBL lysate at 2 µg/ml. Load: 35 µg per lane. Primary antibody: Ipaf antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 116 kDa, 114 kDa for Ipaf. Other band(s): Ipaf splice variants and isoforms.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.