

**Datasheet for 600-401-X91****AIMP2 Antibody****Overview**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Description:</b>  | Anti-AIMP2 (RABBIT) Antibody - 600-401-X91 |
| <b>Item No.:</b>     | 600-401-X91                                |
| <b>Size:</b>         | 100 µg                                     |
| <b>Applications:</b> | ELISA, IF, IHC, WB                         |
| <b>Reactivity:</b>   | Human                                      |
| <b>Host Species:</b> | Rabbit                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Background:</b>   | AIMP2 was initially identified as a part of an aminoacyl-tRNA synthetase complex (1). It was later discovered to be a cofactor and substrate of Parkin, a Ring-type E3 ubiquitin ligase that is important for the survival of dopamine neurons in Parkinson's disease; accumulation of AIMP2 in these cells lead to catecholaminergic cell death (2). AIMP2 can also bind to TRAF2, a key player in the TNF-alpha signaling pathway, causing the ubiquitination of TRAF2 by cIAP1, leading to TNF-alpha-dependent apoptosis (3). Finally, AIMP2 has been suggested to function as a tumor suppressor (4). |
| <b>Synonyms:</b>     | AIMP2 Antibody, P38, JTV1, JTV-1, PRO0992, Aminoacyl tRNA synthase complex-interacting multifunctional protein 2, Multisynthase complex auxiliary component p38                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                        |                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | AIMP2                                                                                                                                                             |
| <b>Reactivity:</b>     | Human                                                                                                                                                             |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                |
| <b>Immunogen:</b>      | Anti-AIMP2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the internal region of human AIMP2. |

|                            |                                                                                                                                                                                                      |
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| <b>Purity/Specificity:</b> | Anti-AIMP2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. AIMP2 antibody is human specific. AIMP2 antibody is predicted to not cross-react with AIMP1. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q13155</a></li><li>• <a href="#">GeneID - 7965</a></li><li>• <a href="#">NCBI - NP_006294</a></li></ul>                              |

## Application Details

|                             |                                                                                                                                                                                                                                                                                           |
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| <b>Tested Applications:</b> | ELISA, IF, IHC, WB                                                                                                                                                                                                                                                                        |
| <b>Application Note:</b>    | Anti-AIMP2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 36 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>                  | User Optimized                                                                                                                                                                                                                                                                            |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                                                                                                                            |
| <b>WB:</b>                  | 1 - 2 µg/mL                                                                                                                                                                                                                                                                               |

## Formulation

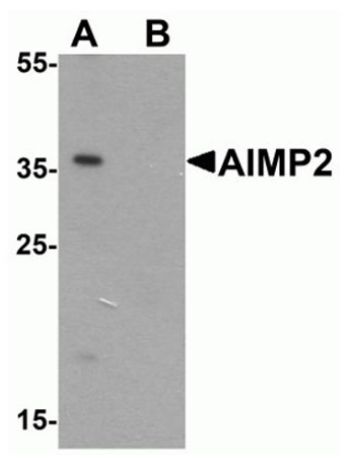
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance 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

|                            |                                                                                                                                                                                                                                                                                                                                               |
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| <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:**

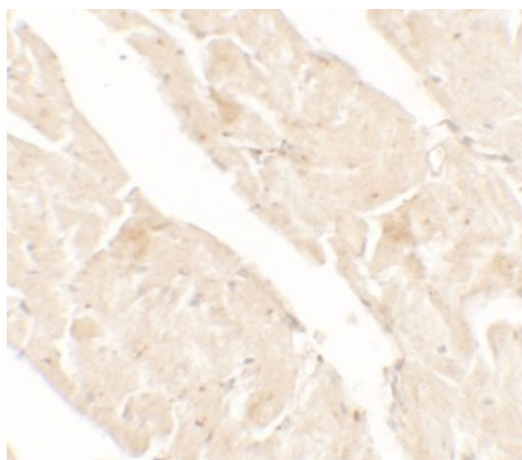
Expiration date is one (1) year from date of receipt.

**Images****Western Blot**

Western blot of AIMP2.

Load: HeLa cell lysate.

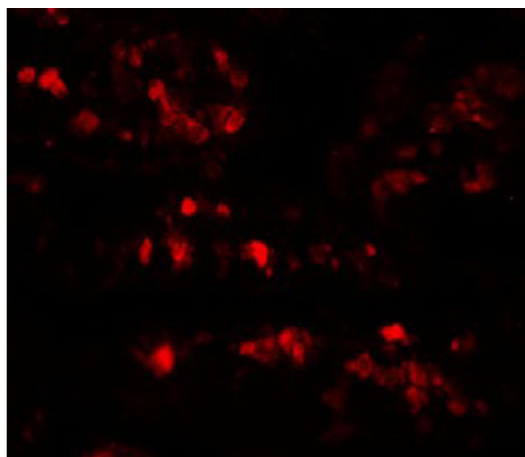
Primary Antibody: AIMP2 antibody at 1  $\mu$ g/ml in (A) the absence and (B) the presence of blocking peptide.

**Immunohistochemistry**

Immunohistochemistry of AIMP2.

Tissue: rat small intestine tissue.

Primary Antibody: AIMP2 antibody at 5  $\mu$ g/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of AIMP2.

Tissue: rat small intestine tissue.

Primary Antibody: AIMP2 antibody at 20 µg/mL.

**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.