

**Datasheet for 600-401-FT1****TYK2 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-TYK2 (RABBIT) Antibody - 600-401-FT1 |
| <b>Item No.:</b>     | 600-401-FT1                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, WB                             |
| <b>Reactivity:</b>   | Human, Mouse, Rat                         |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | TYK2 is a member of the Janus kinases (JAKs) protein families. TYK2 associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits and is also a component of both the type I and type III interferon signaling pathways. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with hyperimmunoglobulin E syndrome (HIES) - a primary immunodeficiency characterized by elevated serum immunoglobulin E. |
| <b>Synonyms:</b>     | TYK2 Antibody, JTK1, Non-receptor tyrosine-protein kinase TYK2                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                        |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | TYK2                                                                                                                                                        |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                           |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                          |
| <b>Immunogen:</b>      | Anti- TYK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the N-terminus of human TYK2. |

|                            |                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity/Specificity:</b> | Anti-TYK2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of TYK2 are known to exist; this antibody only detects the two longest isoforms. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P29597</a></li><li>• <a href="#">GeneID - 7297</a></li><li>• <a href="#">NCBI - NP_003322.3</a></li></ul>                                       |

## Application Details

|                             |                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IF, WB                                                                                                                                                                                                                                                        |
| <b>Application Note:</b>    | Anti-TYK2 Antibody has been tested for use in ELISA, immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 134 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>                  | 20 µg/mL                                                                                                                                                                                                                                                             |
| <b>WB:</b>                  | 1-2 µg/mL                                                                                                                                                                                                                                                            |

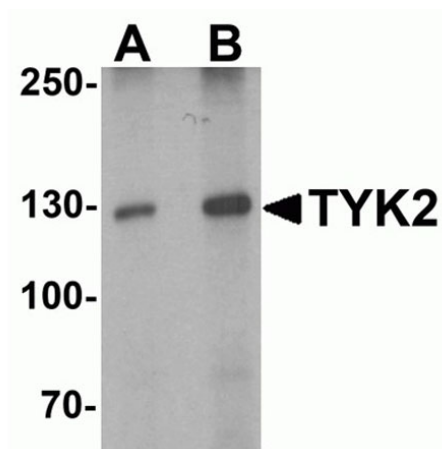
## Formulation

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1.0 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> | Wet Ice                                                                                                        |
| <b>Storage Condition:</b>  | Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                          |

## Images

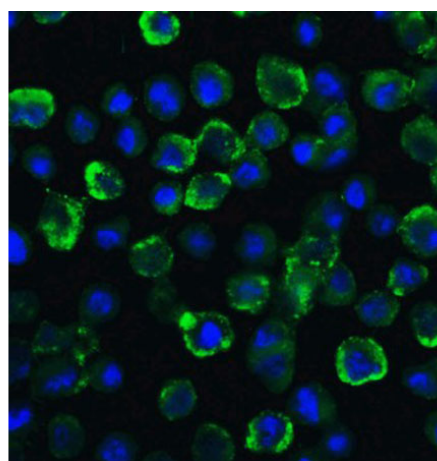


### Western Blot

Western blot analysis of TYK2.

Load: human small intestine tissue lysate.

Primary Antibody: TYK2 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



### Immunofluorescence Microscopy

Immunofluorescence of TYK2.

Cell: A549 cells.

Primary Antibody: TYK2 Antibody at 20  $\mu$ g/ml.

## Disclaimer

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