



# TYK2 mouse mAb

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|---------------------------|--|
| <b>Catalog No</b>         | YP-mAb-12525   |
| <b>Isotype</b>            | IgG  |
| <b>Reactivity</b>         | Human; Mouse;Rat   |
| <b>Applications</b>       | WB   |
| <b>Gene Name</b>          | TYK2   |
| <b>Protein Name</b>       | TYK2   |
| <b>Immunogen</b>          | Synthesized peptide derived from human TYK2  |
| <b>Specificity</b>        | This antibody detects endogenous levels of TYK2 at Human, Mouse,Rat  |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, and 0.05% sodium azide.   |
| <b>Source</b>             | Monoclonal, mouse,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.   |
| <b>Dilution</b>           | WB 1:500-2000  |
| <b>Concentration</b>      | 1 mg/ml  |
| <b>Purity</b>             | ≥90%   |
| <b>Storage Stability</b>  | -20°C/1 year   |
| <b>Synonyms</b>           | Non-receptor tyrosine-protein kinase TYK2 (EC 2.7.10.2)  |
| <b>Observed Band</b>      | 131kD  |
| <b>Cell Pathway</b>       | nucleus,cytoplasm,cytosol,cytoskeleton,membrane,extrinsic component of cytoplasmic side of plasma membrane,extracellular exosome,  |
| <b>Tissue Specificity</b> | Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.   |
| <b>Function</b>           | catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in TYK2 are the cause of protein-tyrosine kinase 2 deficiency (TYK2 deficiency) [MIM:611521]; also called autosomal recessive hyper-IgE syndrome (HIES) with atypical mycobacteriosis. The syndrome consists of a primary immunodeficiency characterized by recurrent skin abscesses, pneumonia, and highly elevated serum IgE.,domain:The FERM domain mediates interaction with JAKMIP1.,function:Probably involved in intracellular signal transduction by being involved in the initiation of type I IFN signaling. Phosphorylates the interferon-alpha/beta receptor alpha chain.,online information:TYK2 mutation db,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Conta |
| <b>Background</b>         | tyrosine kinase 2(TYK2) Homo sapiens This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families. This protein associates with the cytoplasmic domain of type I and type II cytokine   |

receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also 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. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images