

Rabbit anti-Human, Mouse TYK2 Polyclonal Antibody | anti-TYK2 antibody

TYK2 Antibody (C-term)

CATALOG # AAA28807	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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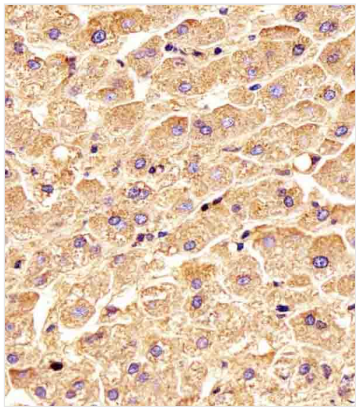
PRODUCT SYNONYMS

TYK2; Polyclonal Antibody; TYK2 Antibody (C-term); Non-receptor tyrosine-protein kinase TYK2; anti-TYK2 antibody

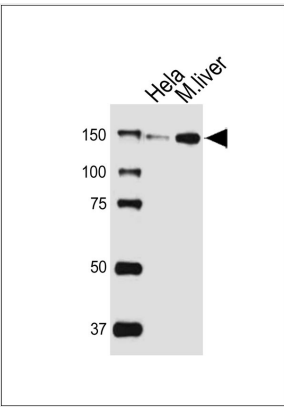
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This TYK2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 887-922 amino acids from the C-terminal region of human TYK2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	1187
Applicable Applications for anti-TYK2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 1:1000 IHC-P: 1:25
Immunogen Region	887-922
Tissue Location	Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines
Function	Tyrosine kinase of the non-receptor type involved in numerous cytokines and interferons signaling, which regulates cell growth, development, cell migration, innate and adaptive immunity (PubMed: 10542297 , PubMed: 10995743 , PubMed: 7657660 , PubMed: 7813427 , PubMed: 8232552). Plays both structural and catalytic roles in numerous interleukins and interferons (IFN-alpha/beta) signaling (PubMed: 10542297). Associates with heterodimeric cytokine receptor complexes and activates STAT family members including STAT1, STAT3, STAT4 or STAT6 (PubMed: 10542297 , PubMed: 7638186). The heterodimeric cytokine receptor complexes are composed of (1) a TYK2-associated receptor chain (IFNAR1, IL12RB1, IL10RB or IL13RA1), and (2) a second receptor chain associated either with JAK1 or JAK2 (PubMed: 10542297 , PubMed: 25762719 , PubMed: 7526154 , PubMed: 7813427). In response to cytokine-binding to receptors, phosphorylates and activates receptors (IFNAR1, IL12RB1, IL10RB or IL13RA1), creating docking sites for STAT members (PubMed: 7526154 , PubMed: 7657660). In turn, recruited STATs are phosphorylated by TYK2 (or JAK1/JAK2 on the second receptor chain), form homo- and heterodimers, translocate to the nucleus, and regulate cytokine/growth factor responsive genes (PubMed: 10542297 , PubMed: 25762719 , PubMed: 7657660). Negatively regulates STAT3 activity by promototing phosphorylation at a specific tyrosine that differs from the site used for signaling (PubMed: 29162862).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry-Paraffin)
Immunohistochemical analysis of paraffin-embedded H. liver section using TYK2 Antibody (C-term) . AAA28807 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



WB (Western Blot)
Western blot analysis of lysates from HeLa cell line,mouse liver tissue lysate(from left to right), using TYK2 Antibody (C-term). AAA28807 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-TYK2 antibody	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.
References	Firmbach-Kraft I.,et al.Oncogene 5:1329-1336(1990). Velazquez L.,et al.Cell 70:313-322(1992). Krolewski J.J.,et al.Oncogene 5:277-282(1990). Partanen J.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:8913-8917(1990). Colamonici O.,et al.Mol. Cell. Biol. 14:8133-8142(1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	187608615
NCBI GeneID	7297
NCBI Accession #	NP_003322.3
NCBI GenBank Nucleotide #	NP_003322.3
UniProt Accession #	P29597; Q9R117
Molecular Weight	H=134; M=133kDa
NCBI Official Full Name	non-receptor tyrosine-protein kinase TYK2
NCBI Official Synonym Full Names	tyrosine kinase 2
NCBI Official Symbol	TYK2
NCBI Official Synonym Symbols	JTK1; IMD35
NCBI Protein Information	non-receptor tyrosine-protein kinase TYK2
UniProt Protein Name	Non-receptor tyrosine-protein kinase TYK2
UniProt Gene Name	TYK2
UniProt Entry Name	TYK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.