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TYK2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5349

Specification

TYK2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P29597
Other Accession	Q9R117
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=134;M=133 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

TYK2 Antibody (C-term) - Additional Information

Gene ID 7297

Antigen Region
887-922

Other Names
Non-receptor tyrosine-protein kinase TYK2, TYK2

Dilution
WB~~1:1000
IHC-P~~1:25

Target/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.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

Precautions
TYK2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TYK2 Antibody (C-term) - Protein Information

Name TYK2

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).

Tissue Location
Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines

TYK2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TYK2 Antibody (C-term) - Images

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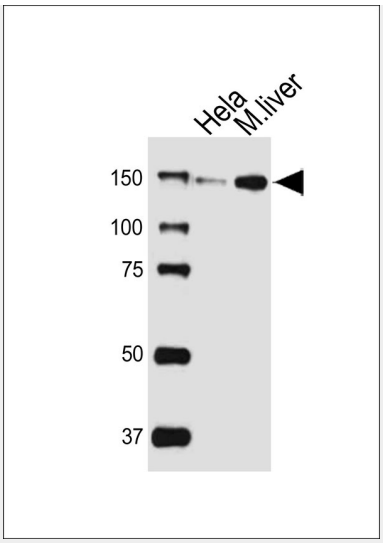
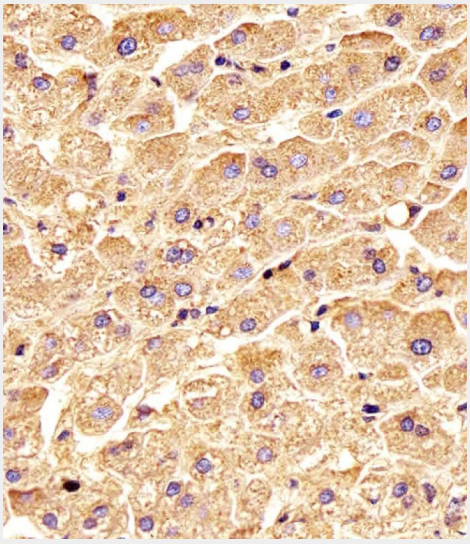


Western blot analysis of lysates from Hela cell line,mouse liver tissue lysate(from left to right), using TYK2 Antibody (C-term)(Cat. #AW5349). AW5349 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



Immunohistochemical analysis of paraffin-embedded H. liver section using TYK2 Antibody (C-term)(Cat#AW5349). AW5349 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

TYK2 Antibody (C-term) - Background

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.

TYK2 Antibody (C-term) - 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).