

Product datasheet for **AP21083PU-M**

TYK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Tyk 2 protein. (region surrounding Val1048)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 134 kDa
Gene Name:	tyrosine kinase 2
Database Link:	<u>Entrez Gene 54721 Mouse</u> <u>Entrez Gene 7297 Human</u> <u>P29597</u>



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Background:

Tyk 2 belongs to the family of non-receptor janus tyrosine kinases, which regulate a spectrum of cellular functions occurring downstream of activated cytokine receptors in the lympho-hematopoietic system. Immunological stimuli, such as interferons and cytokines, recruit STAT transcription factors to the cytokine receptor where Tyk 2 is associated. Tyk 2 then phosphorylates proximal STAT factors, which subsequently dimerize, translocate to the nucleus, and bind to cis elements upstream of target gene promoters to regulating transcription. The canonical JAK-STAT pathway is integral to maintaining a normal immune system by stimulating proliferation, differentiation, survival, and host resistance to pathogens. Cytokine induced pro-inflammatory responses are attractive targets for anti-inflammatory therapies, specifically at the level of Jak-STAT signaling.

Synonyms:

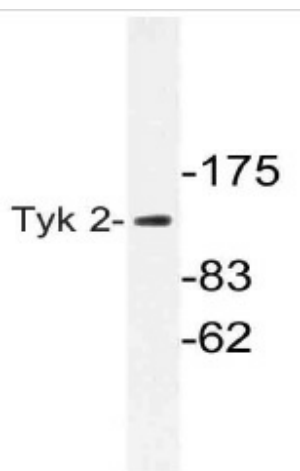
JTK1

Protein Families:

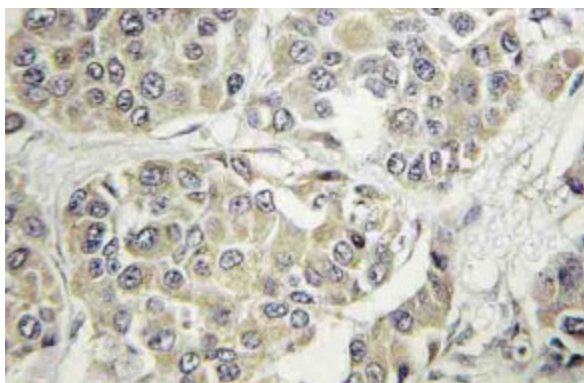
Druggable Genome, Protein Kinase

Protein Pathways:

Jak-STAT signaling pathway

Product images:


Western blot (WB) analysis of Tyk 2 antibody (Cat.-No.: [AP21083PU-N]) in extracts from 293cells.



Immunohistochemistry (IHC) analyzes of Tyk 2 antibody (Cat.-No.: [AP21083PU-N]) in paraffin-embedded human breast carcinoma tissue.