

Product datasheet for **AP21083PU-N**

TYK2 Rabbit Polyclonal Antibody

Product data:

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|-------------------------|--|
| 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: | Entrez Gene 54721 Mouse Entrez Gene 7297 Human P29597 |



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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:

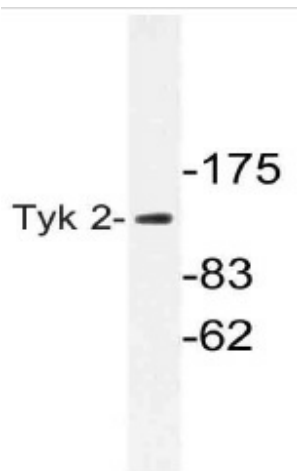
JTK1

Protein Families:

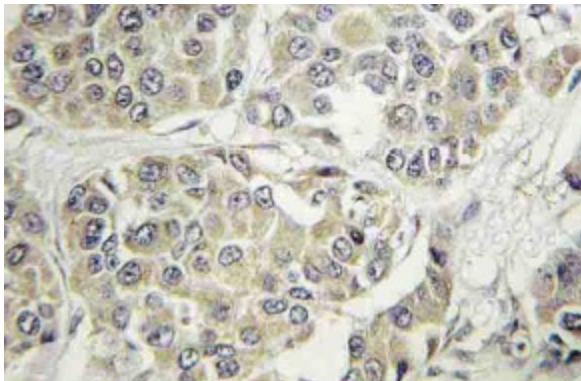
Druggable Genome, Protein Kinase

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.