

## Product datasheet for **AP21083PU-S**

### TYK2 Rabbit Polyclonal Antibody

#### Product data:

|                         |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                                 |
| Applications:           | IF, IHC, WB                                                                                                                                        |
| Recommended Dilution:   | <b>Western blot:</b> 1/500 - 1/1000.<br><b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.<br><b>Immunofluorescence:</b> 1/50 - 1/200. |
| Reactivity:             | Human, Mouse                                                                                                                                       |
| Host:                   | Rabbit                                                                                                                                             |
| Clonality:              | Polyclonal                                                                                                                                         |
| Specificity:            | This antibody detects endogenous levels of Tyk 2 protein.<br>(region surrounding Val1048)                                                          |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>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.<br>Avoid repeated freezing and thawing.                               |
| Stability:              | Shelf life: one year from despatch.                                                                                                                |
| Predicted Protein Size: | ~ 134 kDa                                                                                                                                          |
| Gene Name:              | tyrosine kinase 2                                                                                                                                  |
| Database Link:          | <a href="#">Entrez Gene 54721 Mouse</a> <a href="#">Entrez Gene 7297 Human</a><br><a href="#">P29597</a>                                           |



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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:**

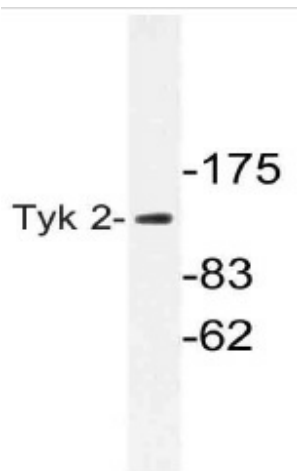
JTK1

**Protein Families:**

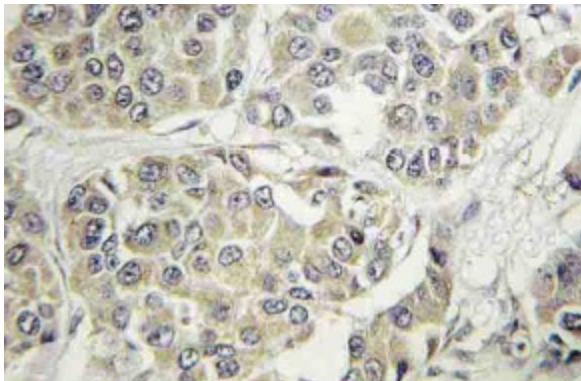
Druggable Genome, Protein Kinase

**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.