

Product datasheet for **TA349137**

JAK2 Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | WB: 1 - 2 ug/mL, IHC: 5 ug/mL |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | JAK2 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human JAK2. |
| Formulation: | PBS containing 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | JAK2 antibody is affinity chromatography purified via peptide column. |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | Predicted: 125 kDa; Observed: 125 kDa |
| Gene Name: | Janus kinase 2 |
| Database Link: | NP_004963 Entrez Gene 16452 Mouse Entrez Gene 24514 Rat Entrez Gene 3717 Human O60674 |
| Background: | JAK2 is a member of the JAK family of kinases that also include JAK1, JAK3, and TYK2 (1,2). JAK kinases are activated following tyrosine phosphorylation of cytokine receptors after ligand binding. JAK2 activation promotes the recruitment and phosphorylation of STAT3 and STAT5. These transcription factors then translocate to the nucleus where they bind specific DNA promoter sequences resulting in the transcription of genes that regulate cell proliferation, differentiation, and apoptosis (3). Mice with a disrupted JAK2 gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis (4). |
| Synonyms: | JTK10; THCYT3 |

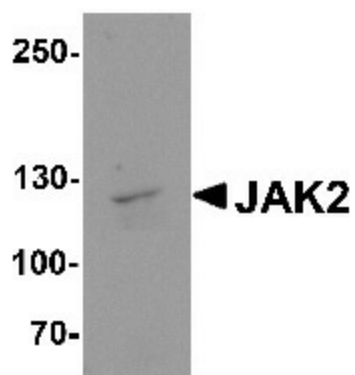


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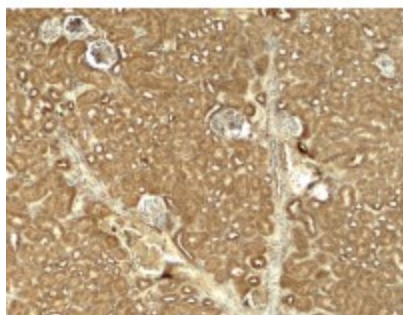
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway

Product images:



Western blot analysis of JAK2 in HeLa cell lysate with JAK2 antibody at 1 ug/mL.



Immunohistochemistry of JAK2 in mouse kidney tissue with JAK2 antibody at 5 ug/mL.