



Genesis Biotech Inc.

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## Anti-Janus Kinase 1 (JAK1), Chicken-Polyclonal Antibody

**Catalog No.** PY-10153      **Quantity:** 100 µg      **Antigen species:** Human  
**Reactivity:** Human, Mouse, Rat      **Applications tested:** WB      **Host species:** Chicken  
**Conjugate:** unconjugated      **Type:** polyclonal antibody      **Form:** Affinity-purified antibody

### Target description

Janus kinase 1 (JAK1), is a member of a new class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The second phosphotransferase domain bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is a large, widely expressed membrane-associated phosphoprotein. JAK1 is involved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interdependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the correct assembly of interferon receptor complexes. These kinases couple cytokine ligand binding to tyrosine phosphorylation of various known signaling proteins and of a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs.

### Antigen

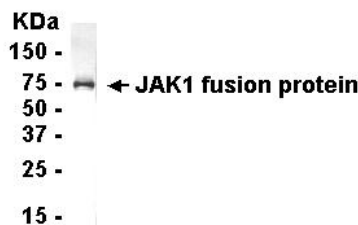
This polyclonal antibody was raised by immunizing chicken with JAK1 fusion protein(2-200 amino acids).

### Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining is 1: 200. Optimal working dilutions must be determined by the end user.

### Related Products

Anti-STAT1, Chicken-Poly	PY-10181
Anti-STAT4, Chicken-Poly	PY-10193
Anti-STAT1 beta, Chicken-Poly	PY-10184
Anti- Jun kinase(JNK2), Chicken-Poly	PY-10198
Anti-serine/threonine protein kinase(AKT), Chicken-Poly	PY-10176
Anti-serine/threonine protein kinase1(AKT1), Chicken-Poly	PY-10178



### Western Blot Test:

*E coli*-derived fusion protein as test antigen. Affinity-Purified IgY dilution: 1:2000, Goat anti-IgY-HRP dilution: 1:1000. Colorimetric method for signal development.

### Storage

It is supplied as affinity purified antibody/ PBS buffer in lyophilized powder. Redissolve the powder with 100µL sterile water will restore to the original concentration 1mg/mL. Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### References

Muller, M. et al: The protein tyrosine kinase JAK1 complements defects in interferon-alpha/beta and -gamma signal transduction. Nature 366: 129-135, 1993.

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