



Mouse Monoclonal Antibody **JAK3** conjugated to Sepharose Beads

CatalogNo: **ANT8250-S**

Size 200ul

Storage Store at 4 °C for frequent use

### Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

**JAK3 (ANT0005R) Rabbit mAb**

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

#### Host Species

- Rabbit

#### MW

- 125kD (Calculated)
- 125kD (Observed)

#### Reactivity

- Human,

#### Isotype

- IgG, Kappa

#### Applications

- WB, IF, IP, ELISA

## Recommended Dilution Ratios

IP

### Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0005R

### Immunogen Information

**Specificity** Endogenous

# Target Information

Gene name JAK3  
Protein Name Tyrosine-protein kinase JAK3

Organism	Gene ID	UniProt ID
Human	<a href="#">3718;</a>	<a href="#">P52333;</a>
Mouse	<a href="#">16453;</a>	<a href="#">Q62137;</a>
Rat		<a href="#">Q63272;</a>

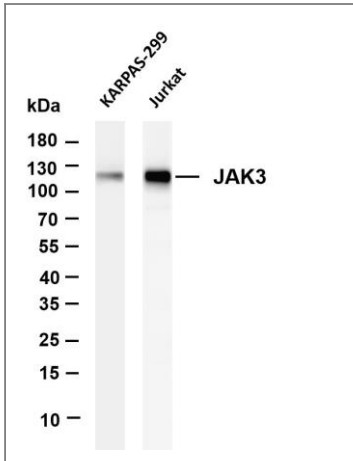
Cellular Localization Cytoplasm

Tissue specificity In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is

more commonly seen in hematopoietic lines, whereas the B-form is detected in cells both of hematopoietic and epithelial origins.

Function Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Disease:Defects in JAK3 are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-negative (T(-)B(+)NK(-)SCID) [MIM:600802]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.,Domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.,Function:Tyrosine kinase of the nonreceptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K.,online information:JAK3 mutation db,ANTM:Tyrosine phosphorylated in response to IL-2 and IL-4.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane associated.,subunit:Interacts with STAM2 and MYO18A (By similarity). Interacts with SHB.,tissue specificity:In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is more commonly seen in hematopoietic lines, whereas the B- and Mforms are detected in cells both of hematopoietic and epithelial origins.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JAK3 (ANT0005R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: KARPAS-299 Lane 2: Jurkat  
Predicted band size: 125kDa Observed band size: 125kDa

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Contact Antagene Inc Tel 1-866-964-2589 Email: [info@antageneinc.com](mailto:info@antageneinc.com)