

## JAK3 (PT0405R) PT® Rabbit mAb

CatalogNo: YM8250 **Recombinant** 

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human,

**Applications**

- WB,IF,IP,ELISA

**MW**

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

**Isotype**

- IgG,Kappa

### Recommended Dilution Ratios

**WB 1:1000-1:5000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0405R

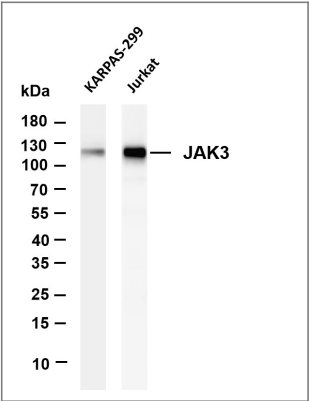
### Immunogen Information

**Specificity** Endogenous

### Target Information

Gene name	JAK3												
Protein Name	Tyrosine-protein kinase JAK3												
	<table><tr><th>Organism</th><th>Gene ID</th><th>UniProt ID</th></tr><tr><td>Human</td><td><a href="#">3718</a>;</td><td><a href="#">P52333</a>;</td></tr><tr><td>Mouse</td><td><a href="#">16453</a>;</td><td><a href="#">Q62137</a>;</td></tr><tr><td>Rat</td><td></td><td><a href="#">Q63272</a>;</td></tr></table>	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> ;
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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	<p>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 non-receptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K.,online information:JAK3 mutation db,PTM: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 M-forms are detected in cells both of hematopoietic and epithelial origins.,</p>												

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JAK3 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

## | Contact information

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Please scan the QR code  
to access additional  
product information:  
**JAK3 (PT0405R)**  
**PT® Rabbit mAb**

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