

## 39-2122: Polyclonal Antibody to Anti-JAK1 Antibody(Discontinued)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	JAK1
<b>Gene ID :</b>	3716
<b>Uniprot ID :</b>	P23458
<b>Alternative Name :</b>	Tyrosine-protein kinase JAK1; 2.7.10.2; Janus kinase 1; JAK-1; JAK1; JAK1A, JAK1B
<b>Isotype :</b>	Rabbit IgG

### Description

JAK1(JANUS KINASE 1) is a human tyrosine kinase protein essential for signaling for certain type I and type II cytokines. JAK1 is a member of a new class of PTKs that are a large family of proteins characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain--hence the name Janus. The JAK1 gene is mapped to 1p31.3. JAK1 is also important for transducing a signal by type I(IFN-alpha/beta) and type II(IFN-gamma) interferons, and members of the IL-10 family via type II cytokine receptors. Jak1 plays a critical role in initiating responses to multiple major cytokine receptor families. Loss of Jak1 is lethal in neonatal mice, possibly due to difficulties suckling. Expression of JAK1 in cancer cells enables individual cells to contract, potentially allowing them to escape their tumor and metastasize to other parts of the body.

### Product Info

<b>Amount :</b>	100 µg/vial
<b>Purification :</b>	Immunogen affinity purified.
<b>Content :</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> . Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
<b>Storage condition :</b>	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Application Note

Western blot : 0.1-0.5µg/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1µg/ml

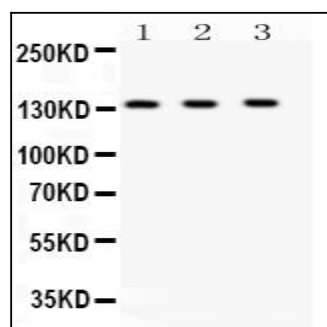


Figure 1: Anti-JAK1 antibody(39-2122). Western blotting: Lanes: Anti JAK1(39-2122)) at 0.5ug/ml with Lane 1: U87 Whole Cell Lysate at 40ug, Lane 2: MM231 Whole Cell Lysate at 40ug, Lane 3: SW620 Whole Cell Lysate at 40ug. Predicted band size: 133 kDa. Observed band size: 133 kDa.