**DESCRIPTION**

**Species Reactivity**  
Mouse/Rat

**Specificity**  
Detects endogenous mouse and rat Jak2 in Western blots.

**Source**  
Polyclonal Goat IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
*E. coli*-derived recombinant mouse Jak2 Gly2-Val63  
Accession # Q62120

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL See Below</td>
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**DATA**

**Western Blot**  
Detection of Mouse/Rat Jak2 by Western Blot. Western blot shows lysates of DA3 mouse myeloma cell line, PT18 mouse mast/basophil cell line, and L6 rat myoblast cell lines. PVDF membrane was probed with 1 μg/mL of Mouse/Rat Jak2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2988) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Jak2 at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Janus Kinase 2 (Jak2) belongs to a family of protein tyrosine kinases that couple to cytokine receptors and are activated by ligand binding to these receptors. Activation of Jak2 and other family members Jak1, Jak3, and Tyk2 occurs via phosphorylation at two adjacent tyrosine residues as well as potentially one or more serine residues. Jaks activate members of the STAT family of transcription factors by phosphorylating critical tyrosine regulatory sites. Jak2 plays an essential role in interferon gamma signaling.

**PRODUCT SPECIFIC NOTICES**

This product is sold under license from Millipore Corporation under the following US or foreign patents: 5,821,069; 5,658,791; EP0560890. This product shall not be used to commercially screen drug molecules being developed as JAK1 or JAK2 inhibitors. Any such activity will be outside the scope of the research use only label license.