

## Datasheet for ABIN967842 anti-JAK1 antibody (AA 551-766)



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### Overview

Quantity:	150 µg
Target:	JAK1
Binding Specificity:	AA 551-766
Reactivity:	Human, Mouse, Rat, Dog, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This JAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

### Product Details

Immunogen:	Human JAK1 aa. 551-766
Clone:	73-JAK1
Isotype:	IgG1 kappa
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken, Frog
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> <li>4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> </ol>

## Product Details

5. For fluorochrome spectra and suitable instrument settings, please refer to us.

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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## Target Details

Target:	JAK1
Alternative Name:	JAK1 ( <a href="#">JAK1 Products</a> )
Background:	<p>The JAK family of receptor-associated protein kinases is directly involved in interferon (IFN) response pathways. The JAK family contains at least three members: JAK1, JAK2, and Tyk2. Each protein is approximately 130 kDa and contains a C-terminal tyrosine kinase domain, an adjacent kinase or kinase-related domain, and five other domains that are highly conserved among family members. In several human and murine cell lines, JAK1 is rapidly tyrosine phosphorylated in response to IFN-alpha and IFN-gamma. JAK1 is required for the phosphorylation of the transcription factor Stat1 (p91), in response to IFNs-alpha or IFN-gamma. JAK1 is also necessary for the efficient phosphorylation of Stat2 (p113) in response to IFN-alpha and for the phosphorylation of Tyk2 or JAK2 in response to IFNs-alpha or IFN-gamma, respectively.</p>
Molecular Weight:	130 kDa
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Interferon-gamma Pathway</a> , <a href="#">Hepatitis C</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Unfolded Protein Response</a>

## Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

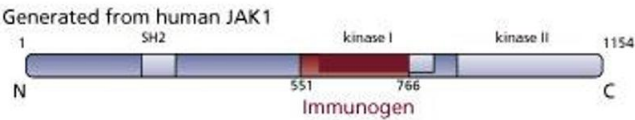
Kopantzev, Heller, Swaminathan, Rudikoff: "IL-6 mediated activation of STAT3 bypasses Janus kinases in terminally differentiated B lineage cells." in: **Oncogene**, Vol. 21, Issue 44, pp. 6791-800, (2002) ([PubMed](#)).

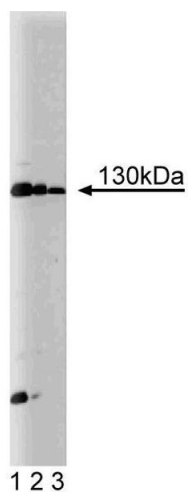
Blesofsky, Mowen, Arduini, Baker, Murphy, Bowtell, David: "Regulation of STAT protein synthesis by c-Cbl." in: **Oncogene**, Vol. 20, Issue 50, pp. 7326-33, (2001) ([PubMed](#)).

Kawazoe, Naka, Fujimoto, Kohzaki, Morita, Narazaki, Okumura, Saitoh, Nakagawa, Uchiyama, Akira, Kishimoto: "Signal transducer and activator of transcription (STAT)-induced STAT inhibitor 1 (SSI-1)/suppressor of cytokine signaling 1 (SOCS1) inhibits insulin signal transduction pathway through modulating insulin receptor substrate 1 (IRS-1) phosphorylation." in: **The Journal of experimental medicine**, Vol. 193, Issue 2, pp. 263-9, (2001) ([PubMed](#)).

Müller, Briscoe, Laxton, Guschin, Ziemiecki, Silvennoinen, Harpur, Barbieri, Witthuhn, Schindler: "The protein tyrosine kinase JAK1 complements defects in interferon-alpha/beta and -gamma signal transduction." in: **Nature**, Vol. 366, Issue 6451, pp. 129-35, (1993) ([PubMed](#)).

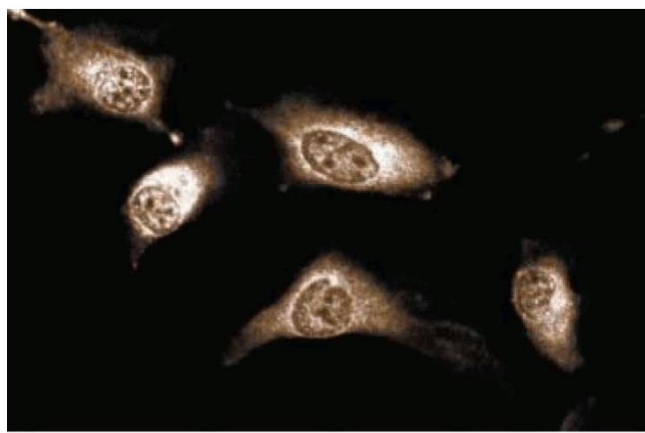
Images





#### Western Blotting

**Image 2.** Western blot analysis of JAK1 on Jurkat cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-JAK1.



#### Immunofluorescence

**Image 3.** Immunofluorescent staining of Human Endothelial cells.