

Datasheet for ABIN967841 anti-JAK1 antibody (AA 551-766)



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Overview

| | |
|----------------------|--|
| Quantity: | 50 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

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|-------------------|--|
| 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"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 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. |

Product Details

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

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

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|-------------------|--|
| Target: | JAK1 |
| Alternative Name: | JAK1 (JAK1 Products) |
| 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: | JAK-STAT Signaling , RTK Signaling , Interferon-gamma Pathway , Hepatitis C , Toll-Like Receptors Cascades , Unfolded Protein Response |

Application Details

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

Handling

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|--------------------|---|
| 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.

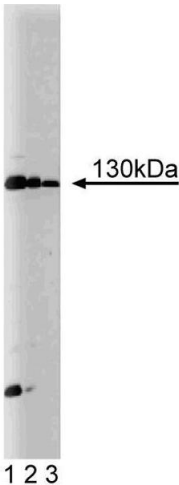
Publications

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](#)).

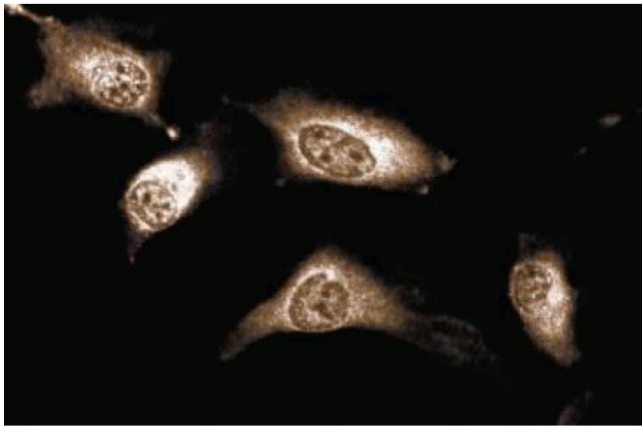
Kawazoe, Naka, Fujimoto, Kohzaki, Morita, Narazaki, Okumura, Saitoh, Nakagawa, Uchiyama, Akira, Kishimoto: "Signal transducer and activator of transcription (STAT)-induced STAT inhibitor 1 (SSI-1)/suppressor of cytokine signaling 1 (SOCS1) inhibits insulin signal transduction pathway through modulating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

Images



Western Blotting

Image 1. 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 2. Immunofluorescent staining of Human Endothelial cells.