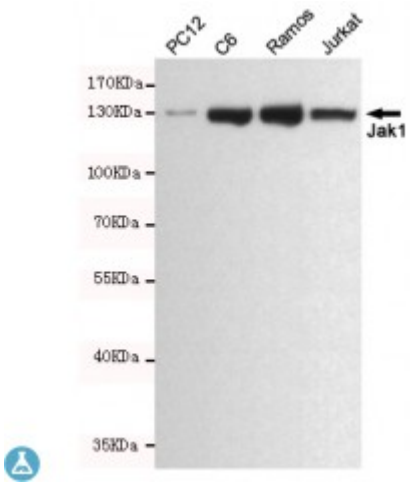
# Anti-Jak1 antibody

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| **Description** | Mouse monoclonal to Jak1. |

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| **Model** | STJ99137 |
| **Host** | Mouse |
| **Reactivity** | Human, Rat |
| **Applications** | ELISA, WB |
| **Immunogen** | Purified recombinant human Jak1 protein fragments expressed in E.coli. |
| **Gene ID** | 3716 |
| **Gene Symbol** | JAK1 |
| **Dilution range** | WB 1:500-2000ELISA 1:10000-20000 |
| **Specificity** | This antibody detects endogenous levels of Jak1 and does not cross-react with related proteins. |
| **Tissue Specificity** | Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clone ID** | 7B1-B6-G7 |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Tyrosine-protein kinase JAK1 Janus kinase 1 JAK-1 |
| **Molecular Weight** | 130kDa |

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| **Clonality** | Monoclonal |
| **Conjugation** | Unconjugated |
| **Isotype** | IgG1 |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:6190OMIM:147795 |
| **Alternative Names** | Tyrosine-protein kinase JAK1 Janus kinase 1 JAK-1 |
| **Function** | Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway . Kinase partner for the interleukin (IL)-2 receptor . |
| **Sequence and Domain Family** | Possesses two phosphotransferase domains. The second one probably contains the catalytic domain, while the presence of slight differences suggest a different role for domain 1. The FERM domain mediates interaction with JAKMIP1. |
| **Cellular Localization** | Endomembrane system. Peripheral membrane protein. Wholly intracellular, possibly membrane associated. |
| **Post-translational Modifications** | Autophosphorylated . Phosphorylated on tyrosine residues in response to interferon gamma signaling . Dephosphorylation of Tyr-1034 and Tyr-1035 by PTPN2 negatively regulates cytokine-mediated signaling . Ubiquitinated by RNF125; leading to its degradation by the proteasome. |