

# Anti-Jak1 Antibody

Mouse Anti Human Monoclonal Antibody

Catalog # AP53400

## Product Information

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<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">P23458</a>
<b>Other Accession</b>	<a href="#">NM_002227</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Immunogen</b>	Purified recombinant human Jak1 protein fragments expressed in E.coli.
<b>Purification</b>	Affinity purified
<b>Calculated MW</b>	133277

## Additional Information

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<b>Gene ID</b>	3716
<b>Other Names</b>	JAK 1; JAK 1A; JAK 1B; JAK-1; JAK1; JAK1_HUMAN; JAK1A; JAK1B; Janus kinase 1 (a protein tyrosine kinase); Janus kinase 1; JTK3; Tyrosine protein kinase JAK 1; Tyrosine protein kinase JAK1; Tyrosine-protein kinase JAK1.
<b>Dilution</b>	WB~~1:500 IP~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	JAK1
<b>Synonyms</b>	JAK1A, JAK1B
<b>Function</b>	Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway (PubMed: <a href="#">16239216</a> , PubMed: <a href="#">28111307</a> , PubMed: <a href="#">32750333</a> , PubMed: <a href="#">7615558</a> , PubMed: <a href="#">8232552</a> ). Kinase partner for the interleukin (IL)-2 receptor (PubMed: <a href="#">11909529</a> ) as well as interleukin (IL)-10 receptor (PubMed: <a href="#">12133952</a> ). Kinase partner for the type I interferon receptor IFNAR2 (PubMed: <a href="#">16239216</a> , PubMed: <a href="#">28111307</a> , PubMed: <a href="#">32750333</a> , PubMed: <a href="#">7615558</a> , PubMed: <a href="#">8232552</a> ). In response to interferon-binding to IFNAR1-IFNAR2 heterodimer, phosphorylates and

activates its binding partner IFNAR2, creating docking sites for STAT proteins (PubMed:[7759950](#)). Directly phosphorylates STAT proteins but also activates STAT signaling through the transactivation of other JAK kinases associated with signaling receptors (PubMed:[16239216](#), PubMed:[32750333](#), PubMed:[8232552](#)).

#### Cellular Location

Endomembrane system; Peripheral membrane protein. Note=Wholly intracellular, possibly membrane associated

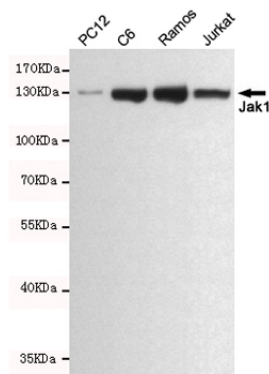
#### Tissue Location

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

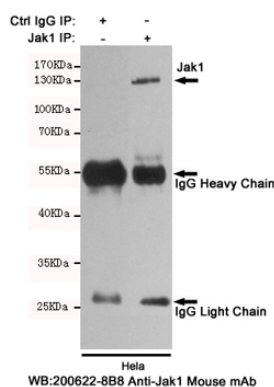
## Background

Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.

## Images



Western blot analysis of extracts from PC12,C6,Ramos and Jurkat cell lysates using Jak1 mouse mAb (1:500 diluted).Predicted band size:130kDa.Observed band size:130kDa.



Immunoprecipitation analysis of HeLa cell lysates using Jak1 mouse mAb. Jak1 mouse mAb was used for the western blot analysis (1:500 diluted)

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