

# JAK1 Antibody

Rabbit mAb

Catalog # AP91603

## Product Information

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|--------------------------|--|
| <b>Application</b>       | WB   |
| <b>Primary Accession</b> | <a href="#">P23458</a>                           |
| <b>Reactivity</b>        | Rat, Human, Mouse                                |
| <b>Clonality</b>         | Monoclonal                                       |
| <b>Other Names</b>       | JAK 1; JAK 1A; JAK 1B; JAK1; JAK1A; JAK1B; JTK3; |
| <b>Isotype</b>           | Rabbit IgG                                       |
| <b>Host</b>              | Rabbit   |
| <b>Calculated MW</b>     | 133277   |

## Additional Information

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|-------------------------------------|---|
| <b>Dilution</b>                     | WB 1:500~1:2000   |
| <b>Purification</b>                 | Affinity-chromatography   |
| <b>Immunogen</b>                    | A synthesized peptide derived from human JAK1   |
| <b>Description</b>                  | Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.                                |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## 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: <a href="#">7759950</a> ). Directly phosphorylates STAT proteins but also activates STAT signaling through the transactivation of other JAK kinases associated with signaling receptors (PubMed: <a href="#">16239216</a> , PubMed: <a href="#">32750333</a> , PubMed: <a href="#">8232552</a> ). |

**Cellular Location**

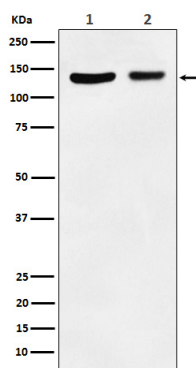
Endomembrane system; Peripheral membrane protein. Note=Wholly intracellular, possibly membrane associated

**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

**Images**

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Western blot analysis of JAK1 expression in (1) A431 cell lysate; (2) RAW264.7 cell lysate.

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