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Phospho-JAK1 (Y1034 + Y1035) Antibody

Rabbit mAb
Catalog # AP93120

Product Information

Application	WB, IHC
Primary Accession	P23458
Reactivity	Human
Clonality	Monoclonal
Other Names	JAK 1; JAK 1A; JAK 1B; JAK1; JAK1A; JAK1B; JTK3; historically have been referenced as Tyr1022 and Tyr1023 (Y1022 + Y1023);
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	133277

Additional Information

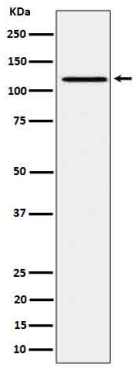
Dilution	WB 1:500~1:2000 IHC 1:50~1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-JAK1 (Y1034 + Y1035)
Description	Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.
Storage Condition and Buffer	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

Name	JAK1
Synonyms	JAK1A, JAK1B
Function	Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway (PubMed:16239216, PubMed:28111307, PubMed:32750333, PubMed:7615558, PubMed:8232552). Kinase partner for the interleukin (IL)-2 receptor (PubMed:11909529) as well as interleukin (IL)-10 receptor (PubMed:12133952). Kinase partner for the type I interferon receptor IFNAR2 (PubMed:16239216, PubMed:28111307, PubMed:32750333, PubMed:7615558, PubMed:8232552). 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

Images



Western blot analysis of Phospho-JAK1 (Y1034 + Y1035) expression in Ramos treated with pervanadate cell lysate.