

JAK1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20770c

Product Information

Application	WB, E
Primary Accession	P23458
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB43812
Calculated MW	133277

Additional Information

Gene ID	3716
Other Names	Tyrosine-protein kinase JAK1, Janus kinase 1, JAK-1, JAK1, JAK1A, JAK1B
Target/Specificity	This JAK1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 866-899 amino acids from the C-terminal region of human JAK1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	JAK1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

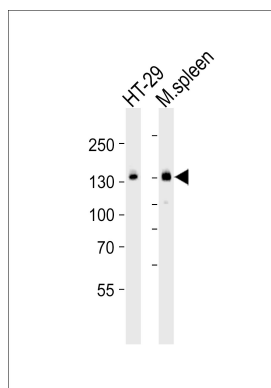
Background

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

References

Wilks A.F.,et al.Mol. Cell. Biol. 11:2057-2065(1991).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Lee S.-T.,et al.Oncogene 8:3403-3410(1993).

Images



Western blot analysis of lysates from HT-29 cell line and mouse spleen tissue lysate(from left to right), using JAK1 Antibody (C-term)(Cat. #AP20770c). AP20770c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Citations

- [Roflumilast reverses polymicrobial sepsis-induced liver damage by inhibiting inflammation in mice.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.