

JAK1 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP20699a**Specification**

JAK1 Blocking Peptide (N-term) - Product Information

Primary Accession [P23458](#)
Other Accession [P52332](#)

JAK1 Blocking Peptide (N-term) - Additional Information

Gene ID 3716

Other Names

Tyrosine-protein kinase JAK1, Janus kinase 1, JAK-1, JAK1, JAK1A, JAK1B

Target/Specificity

The synthetic peptide sequence is selected from aa 172-184 of HUMAN JAK1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

JAK1 Blocking Peptide (N-term) - 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:8232552, PubMed:7615558, PubMed:28111307, PubMed:32750333, PubMed:16239216). 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:8232552, PubMed:7615558).

PubMed:28111307,
PubMed:32750333,
PubMed:16239216).
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:8232552, PubMed:16239216, PubMed:32750333).

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

JAK1 Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

JAK1 Blocking Peptide (N-term) - Images

JAK1 Blocking Peptide (N-term) - 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.

JAK1 Blocking Peptide (N-term) - 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).