

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

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**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](http://www.uniprot.org/citations/8232552)), PubMed: [7615558](http://www.uniprot.org/citations/7615558)), PubMed: [28111307](http://www.uniprot.org/citations/28111307)), PubMed: [32750333](http://www.uniprot.org/citations/32750333)), PubMed: [16239216](http://www.uniprot.org/citations/16239216)). Kinase partner for the interleukin (IL)-2 receptor (PubMed: [11909529](http://www.uniprot.org/citations/11909529)) as well as interleukin (IL)-10 receptor (PubMed: [12133952](http://www.uniprot.org/citations/12133952)). Kinase partner for the type I interferon receptor IFNAR2 (PubMed: [8232552](http://www.uniprot.org/citations/8232552)), PubMed: [7615558](http://www.uniprot.org/citations/7615558)),

PubMed:<a href="http://www.uniprot.org/citations/28111307" target="\_blank">28111307</a>,  
PubMed:<a href="http://www.uniprot.org/citations/32750333" target="\_blank">32750333</a>,  
PubMed:<a href="http://www.uniprot.org/citations/16239216" target="\_blank">16239216</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="http://www.uniprot.org/citations/7759950" target="\_blank">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="http://www.uniprot.org/citations/8232552" target="\_blank">8232552</a>, PubMed:<a  
href="http://www.uniprot.org/citations/16239216" target="\_blank">16239216</a>, PubMed:<a  
href="http://www.uniprot.org/citations/32750333" target="\_blank">32750333</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

#### **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).