

**Product Name: JAK1(7G6)Mouse Monoclonal Antibody**  
**Catalog #: AMM12817**



## Summary

<b>Production Name</b>	JAK1(7G6)Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC-P,IF-P,IF-F,ICC/IF
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	JAK1
<b>Alternative Names</b>	JAK1
<b>Gene ID</b>	3716.0
<b>SwissProt ID</b>	P23458.Synthetic Peptide of JAK1 at AA range of 960-1040

## Application

<b>Dilution Ratio</b>	IHC-P 1:100-200, IF-P/IF-F/ICC/IF 1:50-200
<b>Molecular Weight</b>	130kDa

## Background

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the

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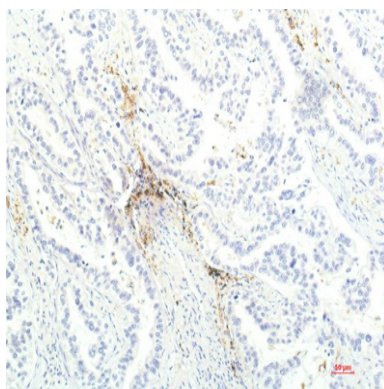


presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta and interferon-gamma signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.,domain:The FERM domain mediates interaction with JAKMIP1.,function:Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.,sequence caution:Translation N-terminally extended.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane associated.,subunit:Interacts with IL31RA, JAKMIP1 and SHB.,tissue specificity: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.,

## Research Area

Jak\_STAT;Pathways in cancer;Pancreatic cancer;

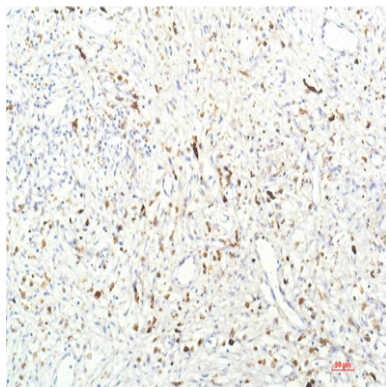
## Image Data



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using JAK1 Mouse mAb diluted at 1:200.

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Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using JAK1 Mouse mAb diluted at 1:200.

**Note**

For research use only.