

For Research Use Only

# JAK1 Monoclonal antibody

Catalog Number: 66466-1-Ig

Featured Product

68 Publications



## Basic Information

Catalog Number:

66466-1-Ig

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG17940

GenBank Accession Number:

BC132729

GeneID (NCBI):

3716

UNIPROT ID:

P23458

Full Name:

Janus kinase 1 (a protein tyrosine kinase)

Calculated MW:

1154 aa, 133 kDa

Observed MW:

133 kDa

Purification Method:

Protein A purification

CloneNo.:

3H7A8

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:100-1:400

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, rat, mouse

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : K-562 cells, Jurkat cells, rat spleen tissue, PC-12 cells, NIH/3T3 cells, RAW 264.7 cells, Ramos cells, Daudi cells

IHC : human breast cancer tissue, human cervical cancer tissue

## Background Information

Janus kinase 1(JAK1), is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. JAK1 is essential for signaling for certain type I and type II cytokines. JAK1 plays a critical role in initiating responses to multiple major cytokine receptor families. Expression of JAK1 in cancer cells enables individual cells to contract, potentially allowing them to escape their tumor and metastasize to other parts of the body.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shiyi Lu	36139880	Antioxidants (Basel)	WB
Xiaoya Shao	36222521	Leuk Lymphoma	WB
Maozhu Xu	36427449	Mol Immunol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

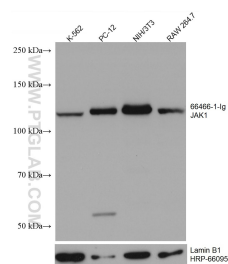
For technical support and original validation data for this product please contact:

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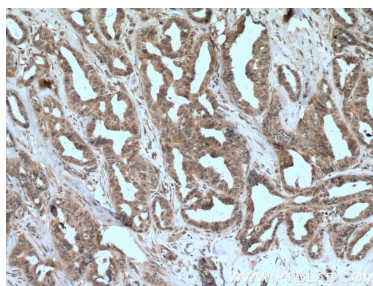
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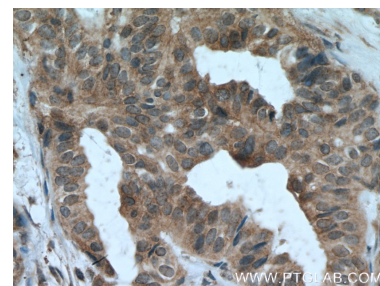
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66466-1-Ig (JAK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66466-1-Ig (JAK1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66466-1-Ig (JAK1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).