

KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AG11086**Specification****KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, ICC
Primary Accession	P23458
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 133 kDa , observed, 133 kDa
Gene Name	KDa
Aliases	JAK1
	JAK1; Janus Kinase 1; JAK1A; JAK1B; JTK3; Tyrosine-Protein Kinase JAK1; EC 2.7.10.2; EC 2.7.10; AIIDE; JAK-1
Immunogen	A synthesized peptide derived from human JAK1

KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	3716
Other Names	
Tyrosine-protein kinase JAK1, 2.7.10.2, Janus kinase 1, JAK-1, JAK1, JAK1A, JAK1B	

KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody - 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](http://www.uniprot.org/citations/16239216)), PubMed: [28111307](http://www.uniprot.org/citations/28111307), PubMed: [32750333](http://www.uniprot.org/citations/32750333), PubMed: [7615558](http://www.uniprot.org/citations/7615558), PubMed: [8232552](http://www.uniprot.org/citations/8232552)). 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: [16239216](http://www.uniprot.org/citations/16239216), PubMed: [28111307](http://www.uniprot.org/citations/28111307), PubMed: [32750333](http://www.uniprot.org/citations/32750333), PubMed: [7615558](http://www.uniprot.org/citations/7615558), PubMed: [8232552](http://www.uniprot.org/citations/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

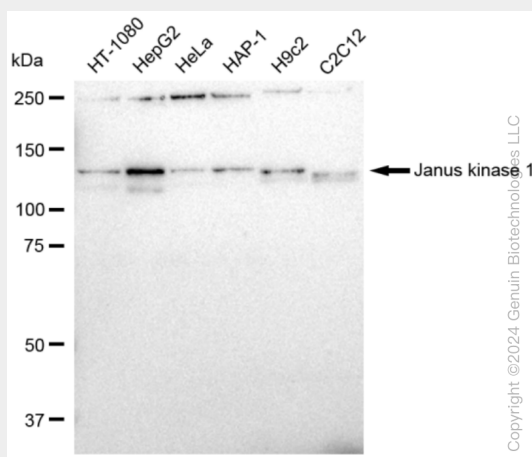
Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue

KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody - Protocols

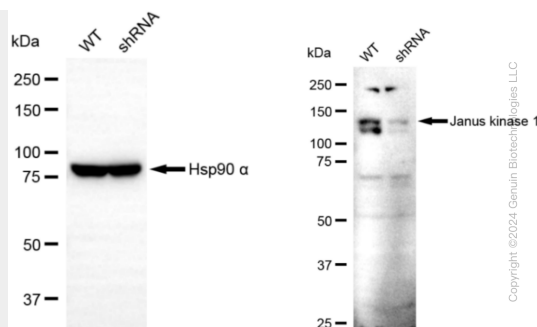
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

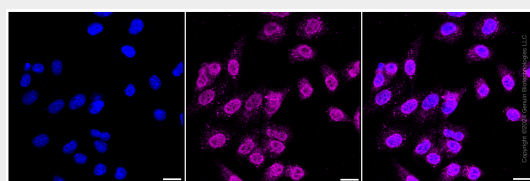
KD-Validated Anti-Janus kinase 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Janus kinase 1 antibody (Cat#AGI1086). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Janus kinase 1 antibody (Cat#AGI1086, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Janus kinase 1 antibody (Cat#AGI1086). Janus kinase 1 expression in wild type (WT) and Janus kinase 1 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Janus kinase 1 antibody (Cat#AGI1086, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HepG2 cells with Janus kinase 1 antibody (Cat#AGI1086, 1:1,000). Nuclei were stained blue with DAPI; Janus kinase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.