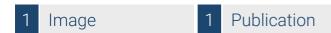


Datasheet for ABIN5518768

anti-JAK1 antibody (N-Term)





Overview

Overview	
Quantity:	100 μg
Target:	JAK1
Binding Specificity:	AA 78-115, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JAK1 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Tyrosine-protein kinase JAK1(JAK1) detection. Tested with WB in Human, Mouse, Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human JAK1 (78-115aa FALYDENTKLWYAPNRTITVDDKMSLRLHYRMRFYFTN), different from the related mouse sequence by three amino acids.
Sequence:	FALYDENTKL WYAPNRTITV DDKMSLRLHY RMRFYFTN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tyrosine-protein kinase JAK1(JAK1) detection. Tested with WB in Human, Mouse, Rat. Gene Name: Janus kinase 1

Product Details

	Protein Name: Tyrosine-protein kinase JAK1
Purification:	Immunogen affinity purified.
Target Details	
Target:	JAK1
Alternative Name:	JAK1 (JAK1 Products)
Background:	JAK1 (JANUS KINASE 1) is a human tyrosine kinase protein essential for signaling for certain type I and type II cytokines. It is a member of a new class of PTKs that are a large family of proteins characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain—hence the name Janus. The JAK1 gene is mapped to 1p31.3. JAK1 is also important for transducing a signal by type I (IFN- α / β) and type II (IFN- γ) interferons, and members of the IL-10 family via type II cytokine receptors. Additionally, Jak1 plays a critical role in initiating responses to multiple major cytokine receptor families. Loss of Jak1 is lethal in neonatal mice, possibly due to difficulties suckling. 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.
	Synonyms: JAK 1A JAK-1 JAK1A JAK1B Tyrosineprotein kinase JAK1 Tyrosine-protein kinase JAK1 P23458
Gene ID:	3716
UniProt:	P23458
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Hepatitis C, Toll-Like Receptors Cascades, Unfolded Protein Response
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

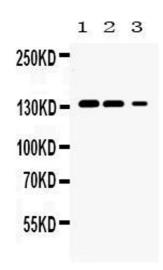
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu g/mL$.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:

Liu, Li, Liang, Li, Jiang, Chu, Yang: "Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 4, pp. 1867-1876, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of JAK1 expression in rat kidney extract (Lane 1), mouse kidney extract (Lane 2) and HELA whole cell lysates (Lane 3). JAK1 at 133KD was detected using rabbit anti- JAK1 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).