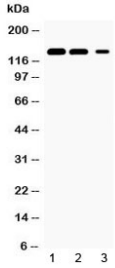
JAK1 Antibody (R32701)

Catalog No.	Formulation	Size
R32701	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P23458
Applications	WB: 0.5-1ug/ml
Limitations	This JAK1 antibody is available for research use only.



Western blot testing of 1) rat kidney, 2) mouse kidney and 3) human HeLa lysate with JAK1 antibody at 0.5ug/ml. Predicted molecular weight ~133 kDa.

Description

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-a/b) and type II (IFN-g) 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.

Application Notes

Optimal dilution of the JAK1 antibody should be determined by the researcher.

Immunogen

Amino acids 78-115 (FALYDENTKLWYAPNRTITVDDKMSLRLHYRMRFYFTN) from the human protein were used as the immunogen for the JAK1 antibody.

Storage

After reconstitution, the JAK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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