

Anti-Tyrosine-protein kinase JAK1 JAK1 Antibody

Catalog Number: PA1628-1

About JAK1

JAK1 (JANUS KINASE 1) is a human tyrosine kinase protein essential for signaling for certain type I and type II cytokines. JAK1 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-alpha/beta) and type II (IFN-gamma) interferons, and members of the IL-10 family via type II cytokine receptors. 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.

Overview

Product Name	Anti-Tyrosine-protein kinase JAK1 JAK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Tyrosine-protein kinase JAK1 JAK1 Antibody catalog # PA1628-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P23458

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human JAK1, identical to the related mouse and rat sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized

Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-Tyrosine-protein kinase JAK1 JAK1 Antibody (PA1628-1) Images



Anti-JAK1 antibody, PA1628-1, Western blotting
All lanes: Anti JAK1 (PA1628-1) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: MM231 Whole Cell Lysate at 40ug
Lane 3: SW620 Whole Cell Lysate at 40ug
Predicted bind size: 133KD
Observed bind size: 133KD

1 Publications Citing This Product

1. PubMed ID: 29393353, Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway

Visit bosterbio.com/anti-jak1-antibody-pa1628-1-boster.html to see all 1 publications.

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