BOSTER
antibody and ELISA experts

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Anti-JAK1 (Ab-1022) Antibody

Catalog Number: A00330-1

About JAK1

Tyrosine kinase of the non-receptor type, involved in the IFN-a/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.

Zheng H, et al. (2005) Mol Cell Proteomics. 4(6):721-730.
Wang R, et al. (2003) Arch Biochem Biophys. 410(1): 7-15.

Overview

Product Name	Anti-JAK1 (Ab-1022) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-JAK1 (Ab-1022) Antibody (Catalog # A00330-1). Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal 2B1
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P23458

Technical Details

Immunogen	Peptide sequence around aa. 1020~1024 (K-E-Y-Y-T) derived from Human JAK1.
Predicted Reactive Species	Equine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

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	If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Predicted MW: 130kd Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100

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Anti-JAK1 (Ab-1022) Antibody (A00330-1) Images

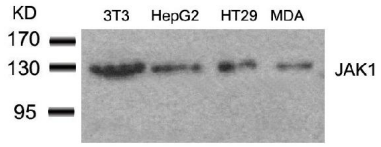

Figure 1. Western blot analysis of JAK1 using anti-JAK1 antibody (A00330-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-JAK1 antigen affinity purified polyclonal antibody (Catalog # A00330-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for JAK1.

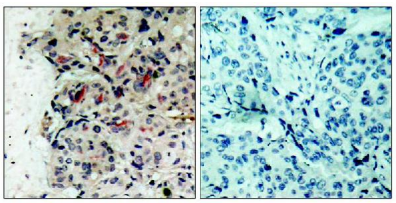

Figure 2. IHC analysis of JAK1 using anti-JAK1 antibody (A00330-1).
JAK1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-JAK1 Antibody (A00330-1) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.