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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CXXC5 Antibody Picoband®

Catalog Number: A06865-1

About CXXC5

The protein encoded by this gene is a retinoid-inducible nuclear protein containing a CXXC-type zinc finger motif. The encoded protein is involved in myelopoiesis, is required for DNA damage-induced p53 activation, regulates the differentiation of C2C12 myoblasts into myocytes, and negatively regulates cutaneous wound healing. Several transcript variants encoding the same protein have been found for this gene.

Overview

Product Name	Anti-CXXC5 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CXXC5 Antibody Picoband® catalog # A06865-1. Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q7LFL8

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human CXXC5. Human CXXC5 shares 100% amino acid (aa) sequence identity with both mouse and rat CXXC5.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human

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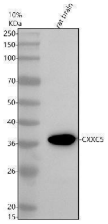
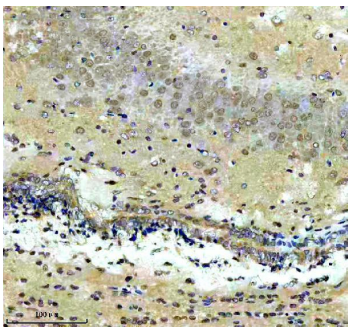
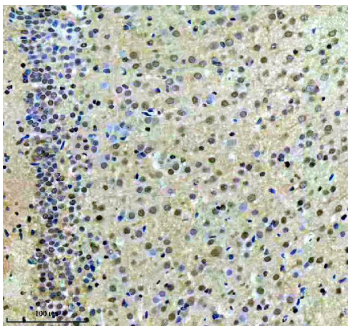
Anti-CXXC5 Antibody Picoband® (A06865-1) Images



Western blot analysis of CXXC5 using anti-CXXC5 antibody (A06865-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-CXXC5 antigen affinity purified polyclonal antibody (A06865-1) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for CXXC5 at approximately 38 kDa. The expected band size for CXXC5 is at 33 kDa.



IHC analysis of CXXC5 using anti-CXXC5 antibody (A06865-1). CXXC5 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CXXC5 Antibody (A06865-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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Flow Cytometry analysis of SH-SY5Y cells using anti-CXXC5 antibody (A06865-1). Overlay histogram showing SH-SY5Y cells stained with A06865-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CXXC5 Antibody

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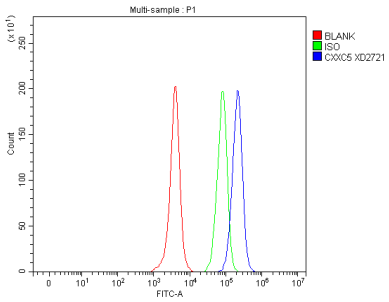

(A06865-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-CXXC5 Antibody

For Research Use Only. Not for use in diagnostic procedures.