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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-BRN3A/POU4F1 Antibody Picoband®

Catalog Number: A05403-1

About POU4F1

POU domain, class 4, transcription factor 1 (POU4F1), also known as brain-specific homeobox/POU domain protein 3A (BRN3A), homeobox/POU domain protein RDC-1 or Oct-T1, is a protein that in humans is encoded by the POU4F1 gene. It is mapped to 13q31.1. This gene encodes a member of the POU-IV class of neural transcription factors. This protein is expressed in a subset of retinal ganglion cells and may be involved in the developing sensory nervous system. This protein may also promote the growth of cervical tumors. A translocation of this gene is associated with some adult acute myeloid leukemias.

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Overview

Product Name	Anti-BRN3A/POU4F1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-BRN3A/POU4F1 Antibody Picoband® catalog # A05403-1. Tested in ELISA, WB applications. This antibody reacts with Human. 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 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	Q01851

Technical Details

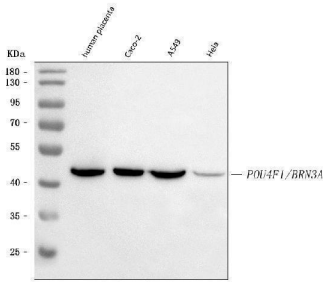
Immunogen	E. coli-derived human BRN3A recombinant protein (Position: R311-Y419).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
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, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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Anti-BRN3A/POU4F1 Antibody Picoband® (A05403-1) Images



Western blot analysis of BRN3A using anti-BRN3A antibody (A05403-1). 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 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human CACO-2 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human Hela whole cell 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-BRN3A antigen affinity purified polyclonal antibody (Catalog # A05403-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for BRN3A at approximately 45 kDa. The expected band size for BRN3A is at 43 kDa.

2 Publications Citing This Product

1. PubMed ID: 10.1007/s12640-016-9624-6, The Toxic Effect of ALLN on Primary Rat Retinal Neurons

2. PubMed ID: 24884644, Calpain: a molecule to induce AIF-mediated necroptosis in RGC-5 following elevated hydrostatic pressure

Visit bosterbio.com/anti-brn3a-picoband-trade-antibody-a05403-1-boster.html to see all 2 publications.

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