BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PEX1 Antibody Picoband®

Catalog Number: A03025-2

About PEX1

Predicted to enable several functions, including ATP binding activity; ATP hydrolysis activity; and ubiquitin-modified protein reader activity. Predicted to be involved in establishment of protein localization to peroxisome; microtubule-based peroxisome localization; and protein unfolding. Located in peroxisome. Used to study Zellweger syndrome. Human ortholog(s) of this gene implicated in Heimler syndrome 1; peroxisome biogenesis disorder 1A; and peroxisome biogenesis disorder 1B. Orthologous to human PEX1 (peroxisomal biogenesis factor 1).

Overview

Product Name	Anti-PEX1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-PEX1 Antibody Picoband® catalog # A03025-2. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with 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	ELISA, Flow Cytometry, 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	Q5BL07

Technical Details

Immunogen	E.coli-derived mouse PEX1 recombinant protein (Position: R25-A1284). Mouse PEX1 shares 81.8% amino acid (aa) sequence identity with human PEX1.
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, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Mouse ELISA, 0.1-0.5 ug/ml

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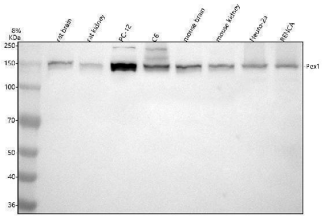
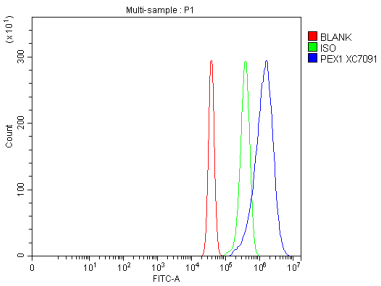
Anti-PEX1 Antibody Picoband® (A03025-2) Images



Western blot analysis of PEX1 using anti-PEX1 antibody (A03025-2). Electrophoresis was performed on a 8% 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, Lane 2: rat kidney tissue lysates, Lane 3: rat PC-12 whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse kidney tissue lysates, Lane 7: mouse Neuro-2a whole cell lysates, Lane 8: mouse RenCa 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-PEX1 antigen affinity purified polyclonal antibody (A03025-2) 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 PEX1 at approximately 143 kDa. The expected band size for PEX1 is at 143 kDa.



Flow Cytometry analysis of Neuro-2a cells using anti-PEX1 antibody (A03025-2). Overlay histogram showing Neuro-2a cells stained with A03025-2 (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-PEX1 Antibody (A03025-2, 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.