BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PON1 Antibody Picoband® (monoclonal, 9D3)

Catalog Number: M00516

About Pon1

Isocitrate dehydrogenase [NADP], mitochondrialis anenzymethat in humans is encoded by theIDH2gene. Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD (+) as the electron acceptor and the other NADP (+). Five isocitrate dehydrogenases have been reported: three NAD (+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP (+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP (+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP (+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants.

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Overview

Product Name	Anti-PON1 Antibody Picoband® (monoclonal, 9D3)
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-PON1 Antibody Picoband® (monoclonal, 9D3) catalog # M00516. Tested in ELISA, IHC, WB 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	IHC, WB, ELISA (Cap)
Clonality	Monoclonal 9D3
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	Mouse
Uniprot ID	P52430

Technical Details

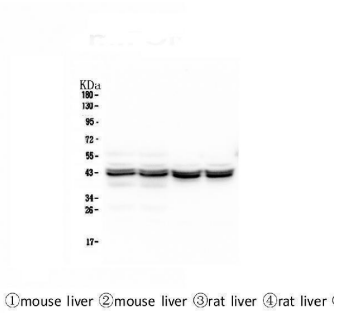
Immunogen	E. coli-derived mouse PON1 recombinant protein (Position: A30-D274).

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
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 Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml ELISA (Cap), 1-5ug/ml

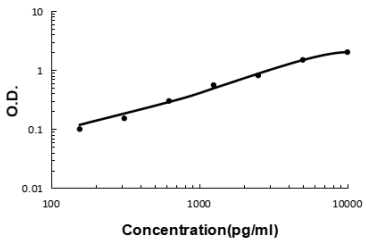
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Anti-PON1 Antibody Picoband® (monoclonal, 9D3) (M00516) Images



①mouse liver ②mouse liver ③rat liver ④rat liver

Western blot analysis of PON1 using anti-PON1 antibody (M00516). 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. Lane 1: mouse liver tissue lysates, Lane 2: mouse liver tissue lysates, Lane 3: rat liver tissue lysates, Lane 4: rat liver tissue lysates. 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 mouse anti-PON1 antigen affinity purified monoclonal antibody (Catalog # M00516) 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-mouse 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 # EK1001) with Tanon 5200 system.



Sandwich ELISA - Recombinant mouse PON1 protein standard curve. Use in combination with reagents from Mouse PON1 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ1621).

Anti-PON1 Antibody (monoclonal, 9D3)

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