

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

Catalog Number: M00516

### About Pon1

Isocitrate dehydrogenase [NADP], mitochondrial isoenzyme that in humans is encoded by the IDH2 gene. 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.

### Overview

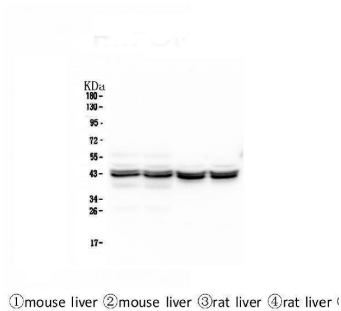
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|----------------------|--|
| Product Name         | Anti-PON1 Antibody Picoband® (monoclonal, 9D3)   |
| Reactive Species     | Mouse, Rat   |
| Description          | Boster Bio Anti-PON1 Antibody Picoband® (monoclonal, 9D3) catalog # M00516. Tested 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 Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Na <sub>3</sub> N.   |
| 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

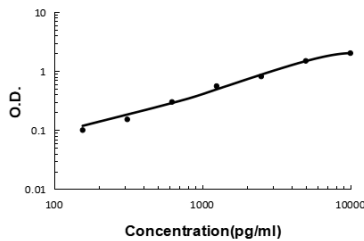
|                               |  |
|-------------------------------|--|
| Immunogen                     | E. coli-derived mouse PON1 recombinant protein (Position: A30-D274).   |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western 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<br>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml<br>ELISA (Cap), 1-5ug/ml |

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



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).

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