

## Anti-OAS2 Antibody Picoband®

Catalog Number: A01878-4

### About OAS2

2'-5'-oligoadenylate synthetase 2 is an enzyme that in humans is encoded by the OAS2 gene. Enables 2'-5'-oligoadenylate synthetase activity and double-stranded RNA binding activity. Involved in defense response to virus; regulation of lactation; and type I interferon signaling pathway. Acts upstream of or within RNA catabolic process; interleukin-27-mediated signaling pathway; and response to bacterium. Predicted to be located in perinuclear region of cytoplasm. Predicted to be active in cytosol; membrane; and nucleoplasm. Is expressed in embryo. Orthologous to human OAS2 (2'-5'-oligoadenylate synthetase 2).

### Overview

Product Name	Anti-OAS2 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-OAS2 Antibody Picoband® catalog # A01878-4. 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 Na <sub>2</sub> HPO <sub>4</sub> .
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	E9Q9A9

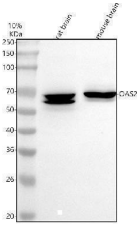
### Technical Details

Immunogen	E.coli-derived mouse OAS2 recombinant protein (Position: H35-K742). Mouse OAS2 shares 62.4% and 77.5% amino acid (aa) sequence identity with human and rat ATF5, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

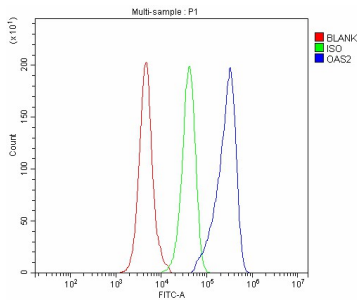
Suggested Dilutions

Western blot, 0.25-0.5 ug/ml, Mouse, Rat  
Flow Cytometry (Fixed), 1-3 ug/ $1 \times 10^6$  cells, Mouse  
ELISA, 0.1-0.5 ug/ml, Mouse

## Anti-OAS2 Antibody Picoband® (A01878-4) Images



Western blot analysis of OAS2 using anti-OAS2 antibody (A01878-4). 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: rat brain tissue lysates, Lane 2: mouse 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-OAS2 antigen affinity purified polyclonal antibody (Catalog # A01878-4) 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 OAS2 at approximately 69 kDa. The expected band size for OAS2 is at 82 kDa.



Flow Cytometry analysis of Raw264.7 cells using anti-OAS2 antibody (A01878-4). Overlay histogram showing Raw264.7 cells stained with A01878-4 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-OAS2 Antibody (A01878-4, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-OAS2 Antibody

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