

## Anti-MGARP Antibody Picoband®

Catalog Number: A09345-2

### About MGARP

MGARP is highly enriched in steroidogenic tissues and the visual system. Interestingly, its expression increases as mice develop. Early in development, MGARP is mainly detected in the retina and adrenal gland. At this early developmental stage, its expression is not detectable in the gonads, but its expression in the gonads dramatically increases during the first 2–4 wk after birth. Importantly, MGARP levels correlate with estrogen levels in the ovaries during the estrous cycle, and estrogen regulates the expression of MGARP in a tissue-specific manner and through a feedback regulatory mechanism. Functional inhibition of GnRH with an antagonist strongly reduces MGARP levels, and knockout of leptin (*ob/ob*) significantly reduces the MGARP expression in follicular granular cells. We proposed a model that elucidates the role MGARP plays in the HPG axis. Within the HPG axis loop, MGARP participates in hormone biosynthesis while being under the regulation of the hormones derived from the HPG axis.

### Overview

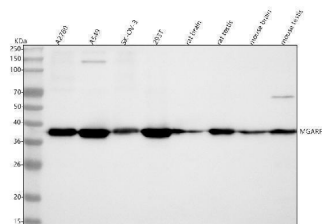
Product Name	Anti-MGARP Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MGARP Antibody Picoband® catalog # A09345-2. Tested in WB, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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, 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	Q8TDB4

### Technical Details

Immunogen	E.coli-derived human C4orf49/MGARP recombinant protein (Position: M1-E155). Human C4orf49/MGARP shares 67.3% amino acid (aa) sequence identity with mouse C4orf49/MGARP.
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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.25 µg/ml, Human, Mouse, Rat ELISA, 0.1-0.5 µg/ml, -

## Anti-MGARP Antibody Picoband® (A09345-2) Images



Western blot analysis of C4orf49/MGARP using anti-C4orf49/MGARP antibody (A09345-2). 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 A2780 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human SK-OV-3 whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse testis 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-C4orf49/MGARP antigen affinity purified polyclonal antibody (Catalog # A09345-2) at 0.25 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 C4orf49/MGARP at approximately 38 kDa. The expected band size for C4orf49/MGARP is at 25 kDa.

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