

Anti-Oligodendrocyte myelin glycoprotein/OMG Antibody Picoband®

Catalog Number: PB9730

About OMG

Oligodendrocyte-myelin glycoprotein is a protein that in humans is encoded by the OMG gene. This gene is mapped to 17q11-q12. OMG, like neurofibromin (NF1), has growth suppressive effects and downregulates mitogenic signaling pathways closely related to those influenced by neurofibromin. Overexpression of OMG alters mitogenic signaling in fibroblasts. Cells overexpressing OMG grow more slowly in serum compared to controls and show a partial G1 block upon cell cycle analysis.

Overview

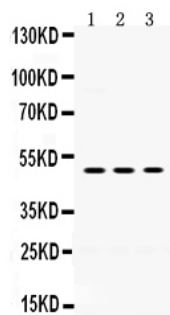
Product Name	Anti-Oligodendrocyte myelin glycoprotein/OMG Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Oligodendrocyte myelin glycoprotein/OMG Antibody Picoband® catalog # PB9730. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Rabbit
Uniprot ID	P23515

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human OMG, different from the related mouse sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.

Isotype	Rabbit IgG
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, Human, Mouse, Rat

Anti-Oligodendrocyte myelin glycoprotein/OMG Antibody Picoband® (PB9730) Images



Western blot analysis of OMG using anti-OMG antibody (PB9730). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Rat Brain Tissue Lysate at 50ug, Lane 2: Mouse Brain Tissue Lysate at 50ug, Lane 3: U87 Whole Cell Lysate at 40ug. 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 rabbit anti-OMG antigen affinity purified polyclonal antibody (Catalog # PB9730) 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 1:10000 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 OMG at approximately 50KD. The expected band size for OMG is at 50KD.

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Anti-Oligodendrocyte myelin glycoprotein/OMG Antibody

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