

TNFRSF11B Monoclonal Antibody (5G2)

Catalog NumberMA5-15715

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	1:10,000
Type	Antibody	Flow Cytometry (Flow)	1:200-1:400
Clone	5G2	Western Blot (WB)	1:500-1:2,000
Immunogen	Purified recombinant fragment of human TNFRSF11B expressed in E. Coli.	Immunocytochemistry (ICC/IF)	1:200-1:1,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	Conc. Not Determined		
Storage buffer	ascites		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-15715 targets TNFRSF11B in indirect ELISA, FACS, IF, and WB applications and shows reactivity with Human samples. The MA5-15715 immunogen is purified recombinant fragment of human TNFRSF11B expressed in E. Coli. MA5-15715 detects TNFRSF11B which has a predicted molecular weight of approximately 60kDa.

Background/Target Information

The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined.

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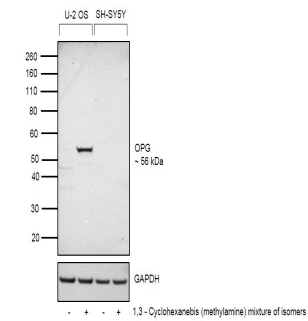
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Product Images For TNFRSF11B Monoclonal Antibody (5G2)

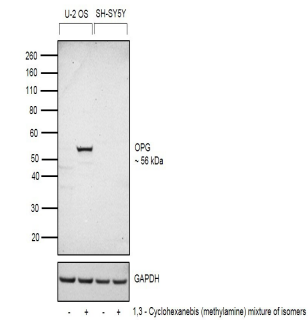
TNFRSF11B Antibody (MA5-15715) in WB

Western blot was performed using Anti-OPG Mouse Monoclonal Antibody (Product # MA5-15715) and a 56 kDa band corresponding to OPG was observed in U-2 OS cell line treated with 1,3 - Cyclohexanebis (methylamine) mixture of isomers tested and not in SH-SY5Y which is reported to be negative. Whole cell extracts (30 µg lysate) of U-2 OS (Lane 1), U-2 OS treated with 1,3 - Cyclohexanebis (methylamine) mixture of isomers for 4 hours (Lane 2), SH-SY5Y (Lane 3) and U-2 OS treated with 1,3 - Cyclohexanebis (methylamine) mixture of isomers for 4 hours (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



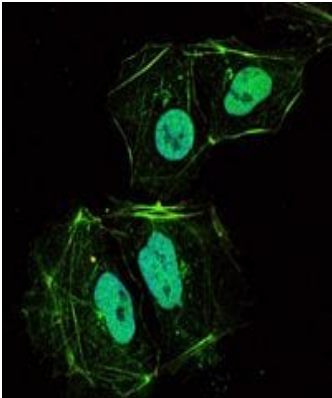
TNFRSF11B Antibody (MA5-15715)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of OPG was observed in U-2 OS, a positive cell model for OPG expression (Lane 1), U-2 OS treated with a secretion blocker 1.5 mM of 1,3 - Cyclohexanebis (methylamine) mixture of isomers (Lane 2), SH-SY5Y, a negative cell model for OPG expression (Lane 3) and SH-SY5Y treated with 1.5 mM of 1,3 - Cyclohexanebis (methylamine) mixture of isomers. Upon secretion blocker treatment, OPG protein was retained in U-2 OS cells as compared to SH-SY5Y treated cells using TNFRSF11B Monoclonal Antibody (5G2) (Product # MA5-15715). {RE}



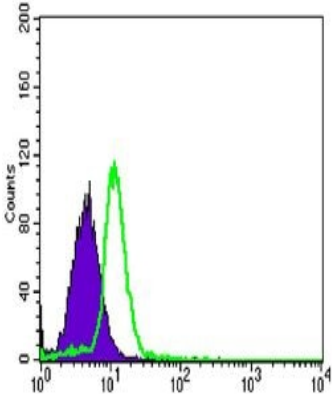
TNFRSF11B Antibody (MA5-15715) in ICC/IF

Immunofluorescence analysis of HL-60 cells using TNFRSF11B monoclonal antibody (Product # MA5-15715) (Green). Blue: DRAQ5 fluorescent DNA dye.



TNFRSF11B Antibody (MA5-15715) in Flow

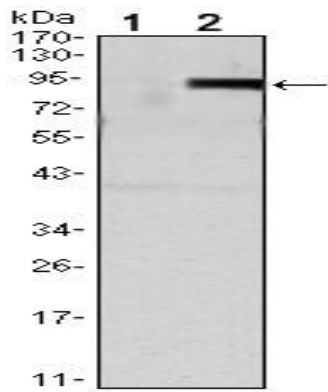
Flow cytometric analysis of HL-60 cells using TNFRSF11B monoclonal antibody (Product # MA5-15715) (green) and negative control (purple).



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TNFRSF11B Antibody (MA5-15715) in WB

Western blot analysis of TNFRSF11B using TNFRSF11B monoclonal antibody (Product # MA5-15715) in HEK293 (1) and TNFRSF11B (AA: 22-401) human IgG Fc transfected HEK293 (2) cell lysate.

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