

Rat anti-Human Repulsive Guidance Molecule B (RGMB) Monoclonal Antibody | anti-RGMB antibody

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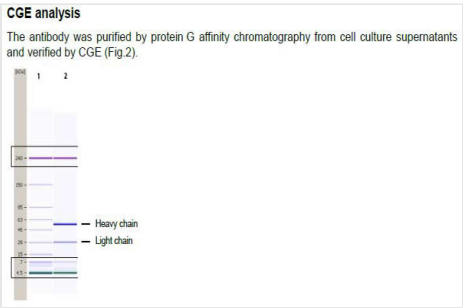
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71493	Rat	Human	ELISA, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Repulsive Guidance Molecule B (RGMB); Monoclonal Antibody; Rat anti-human Repulsive Guidance Molecule B (RGMB) monoclonal antibody; anti-RGMB antibody

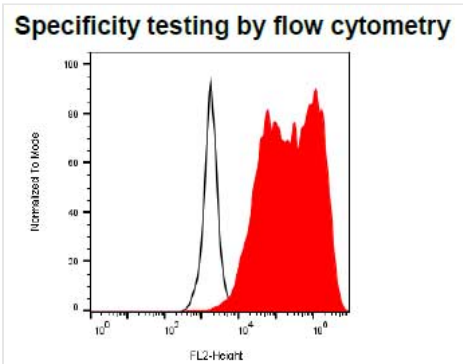
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a/kappa
Clone Number	BFH-5C9
Specificity	anti-human RGMB
Purity/Purification	Protein G
Form/Format	Phosphate buffered saline, pH 7.2
Sequence Length	478
Applicable Applications for anti-RGMB antibody	ELISA, ELISA, FCM/FACS (Flow Cytometry)
Immunogen	Genetic immunisation with cDNA encoding the extracellular domain (ecd) of human RGMB
Selection	Based on recognition of the ecd region of RGMB on viable, transfected mammalian cells
Preparation and Storage	Short term: Store at 2° to 8°C Long term: Store at -20°C (avoid repeated freezing and thawing)



Application Data

Fig.2: CGE analysis of purified BFH-5C9 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 ug of purified BFH-5C9 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).



FCM/FACS (Flow Cytometry)

Fig.1: AAA71493 BOSC23 cells were transiently transfected with an expression vector encoding either the ecd of human RGMB (red filled curve), or an irrelevant protein (control transfectant, black curve). Binding of BFH-5C9 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with human RGMB.

ADDITIONAL INFORMATION

Related Product Information for anti-RGMB antibody	Purified Monoclonal Rat Antibody The RGM domain family member B (RGMB) is a glycosylphosphatidylinositol (GPI)-anchored member of the Repulsive Guidance Molecule family which plays a role in patterning of the developing nervous system (1). There is a potential association between RGMs and cancer bone metastasis, as RGMs coordinate bone morphogenetic protein (BMP) signaling. RGMB may act as a negative regulator in vitro in breast cancer and prostate cancer through BMP signalling (2,3). Furthermore, aberrant expression of RGMs was indicated in breast cancer (4). The perturbed expression was associated with disease progression and poor prognosis. This antibody is recommended for applications under non-denaturing conditions.
References	1. Severyn CJ, Shinde U and Rotwein P. (2009). Molecular biology, genetics and biochemistry of the repulsive guidance molecule family. Biochem J. 422(3):393-403. doi: 10.1042/BJ20090978. 2. Li J, Ye L, Sanders AJ and Jiang WG (2012). Repulsive guidance molecule B (RGMB) plays negative roles in breast cancer by coordinating BMP signalling. J. Cell. Biochem. 113(7): 2523-2531. doi:10.1002/jcb.24128. 3. Li J, Ye L, Kynaston HG and Jiang WG (2012). Repulsive guidance molecules, novel bone morphogenetic protein co-receptors, are key regulators of the growth and aggressiveness of prostate cancer cells. Int.J. Oncol. 40(2): 544-550. doi: 10.3892/ijo.2011.1251. 4. Li J, Ye L, Mansel RE and Jiang WG (2011). Potential prognostic value of repulsive guidance molecules in breast cancer. Anticancer Res. 31(5):1703-1711.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224589135
NCBI GeneID	285704
NCBI Accession #	NP_001012779.2
NCBI GenBank Nucleotide #	NM_001012761.2
NCBI Official Full Name	RGM domain family member B
NCBI Official Synonym Full Names	repulsive guidance molecule family member b
NCBI Official Symbol	RGMB
NCBI Official Synonym Symbols	DRAGON
NCBI Protein Information	RGM domain family member B
UniProt Protein Name	RGM domain family member B
UniProt Gene Name	RGMB

UniProt Synonym Gene Names	DRAGON
UniProt Entry Name	RGMB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/repulsive-guidance-molecule-b-rgmb-antibody-clone-bfh-5c9-flow-cytometry-elisa/71493>