10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DRAGON (RGMB) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1421b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q6NW40
Other Accession	Q7TQ33
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB08951
Calculated MW	47547
Antigen Region	376-406

Additional Information

Gene ID	285704
Other Names	RGM domain family member B, DRG11-responsive axonal guidance and outgrowth of neurite, DRAGON, RGMB
Target/Specificity	This DRAGON (RGMB) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 376-406 amino acids from the C-terminal region of human DRAGON (RGMB).
Dilution	IHC-P~~1:100~500 WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DRAGON (RGMB) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RGMB {ECO:0000303|PubMed:19324014, ECO:0000312|HGNC:HGNC:26896}
Function	Member of the repulsive guidance molecule (RGM) family that contributes to the patterning of the developing nervous system (By similarity). Acts as a

	bone morphogenetic protein (BMP) coreceptor that potentiates BMP signaling (By similarity). Promotes neuronal adhesion (By similarity). May inhibit neurite outgrowth.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q7TQ33}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q7TQ33}. Membrane raft {ECO:0000250|UniProtKB:Q7TQ33}

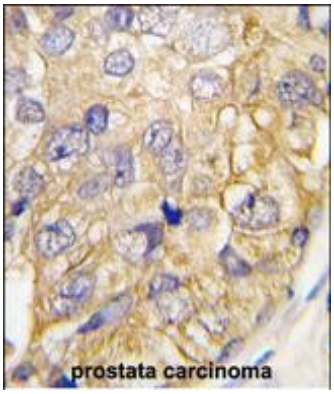
Background

Repulsive Guidance Molecule B (RGMB) is primarily expressed in the central nervous system. RGM A and B both appear at every level of the developing neural axis, where they colocalize to a large extent in the mantle layer, although only RGMA appears in the neuroepithelium, and only RGMB in the peripheral nervous system. During development, both RGMA and B appear also in lung and in limb cartilage, while RGMB has additional expression domains in pancreas.

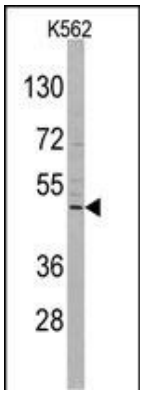
References

Schnichels,S., Gene Expr. Patterns 8 (1), 1-11 (2007)
Metzger,M., Dev. Dyn. 234 (1), 169-175 (2005)
Xia,Y., Endocrinology 146 (8), 3614-3621 (2005)

Images



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with DRAGON (RGMB) (C-term) (Cat.#AP1421b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western blot analysis of DRAGON (RGMB) Antibody (C-term) in K562 cell line lysates (35ug/lane). DRAGON (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.