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DRAGON (RGMB) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1421c

Product Information

Application	WB, IHC-P, 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	RB08960
Calculated MW	47547
Antigen Region	278-309

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 278-309 amino acids from the Central region of human DRAGON (RGMB).
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (Center) 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}

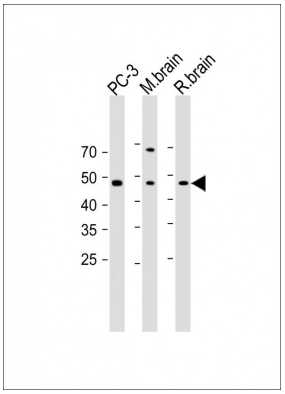
Background

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.

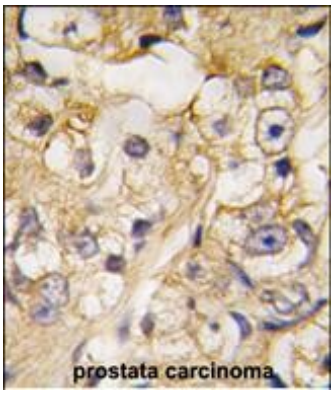
References

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



All lanes: Anti-DRAGON (RGMB) Antibody (Center) at 1:1000 dilution Lane 1: PC-3 whole cell lysate Lane 2: Mouse brain lysate Lane 3: Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 47. 5 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with DRAGON (RGMB) Antibody (Center) (Cat.#AP1421c), 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.

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