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
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}
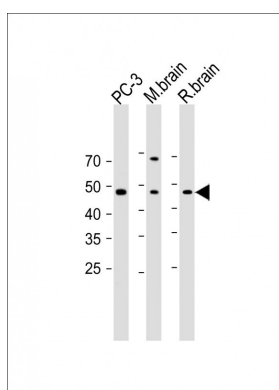
Background

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.