Data Sheet (Cat.No.TMAB-12196)

Anti-Repulsive Guidance Molecule B Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 40 kDa. Actual: 48 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Muscle tissue lysates Lane 3: Mouse NIH/3T3 cell lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Rat Stomach tissue lysates Lane 6: Rat Muscle tissue lysates Lane 7: Human A431 cell lysates Primary: Anti-Repulsive Guidance Molecule B (TMAB-12196) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 48 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human RGMB
Antigen Species:	Human
Gene ID:	285704
Uniprot ID:	Q6NW40

Research Background

The repulsive guidance molecule (RGM) family of proteins are important in the guidance of growth cones of developing neurons. They are repulsive for a group of axons, those from the temporal half of the retina. RGM have been implicated in both axonal guidance and neural tube closure but as opposed to for ephrins, semaphorins, netrins and slits, no receptor mechanism for RGM activation has been defined. Dorsal root ganglion axons do not respond to RGM but neogenin (a netrin-binding protein which can function as an RGM receptor) expression can spur RGM responsiveness. The RGM proteins are attached to the membrane by a GPI-anchor. Two members of this family, RGMa and RGMb, are expressed in the nervous system. RGMc, also known as Hemojuvelin, is a part of the signaling

pathway activating hepcidin and works together with hepcidin to restrict iron absorption in the gut. Defects in the gene encoding for RGMc causes the autosomal recessive disorder juvenile hemochromatosis (JH).

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