**bs-11474R** **[ Primary Antibody ]**

# Repulsive Guidance Molecule B Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 285704 **SWISS:** Q6NW40

**Target:** Repulsive Guidance Molecule B

**Immunogen:** KLH conjugated synthetic peptide derived from human RGMB: 58-160/437.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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).

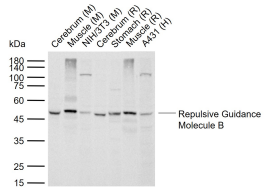
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human, Mouse, Rat (predicted: Pig, Cow, Dog, Horse)

**Predicted MW.:** 40 kDa

**Subcellular Location:** Cell membrane

## VALIDATION IMAGES




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 (bs-11474R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 48 kDa

## SELECTED CITATIONS


- **[IF=9.995]** Siu Yu A. Chow. et al. Human sensory neurons modulate melanocytes through secretion of RGMB. CELL REP. 2022 Sep;40:111366 IF ;Human. 36130522
- **[IF=5.3]** Guo Hua. et al. PD-L2 mediates tobacco smoking-induced recruitment of regulatory T cells via the

RGMB/NFκB/CCL20 cascade. CELL BIOL TOXICOL. 2024 Dec;40(1):1-21 WB ;Mouse,Human. 39042313