

Datasheet for ABIN7601818
anti-RGMB antibody (AA 47-404)



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Overview

Quantity:	100 µg
Target:	RGMB
Binding Specificity:	AA 47-404
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RGMB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DRAGON/RGMB Antibody Picoband®
Immunogen:	E.coli-derived human DRAGON/RGMB recombinant protein (Position: D47-R404).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DRAGON/RGMB Antibody Picoband® (ABIN7601818). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	RGMB
Alternative Name:	RGMB (RGMB Products)
Background:	Synonyms: Aflatoxin B1 aldehyde reductase member 2, AFB1 aldehyde reductase 1, AFB1-AR 1, Aldoketoreductase 7, Succinic semialdehyde reductase, SSA reductase, AKR7A2, AFAR, AFAR1, AKR7 Tissue Specificity: Expressed in basement membranes of lung and kidney. Muscle- and neuron-specific isoforms are found. Isoforms (y+) with the 4 AA insert and (z+8) isoforms with the 8 AA insert are all neuron-specific. Isoforms (z+11) are found in both neuronal and non-neuronal tissues. Background: Repulsive guidance molecule B (RGMB), also known as DRAGON (DRG11-responsive axonal guidance and outgrowth of neurite), is a bone morphogenetic protein (BMP) co-receptor of the repulsive guidance molecule family. In humans this protein is encoded by the RGMB gene. RGMB is a glycosylphosphatidylinositol (GPI)-anchored member of the repulsive guidance molecule family (see also RGMA and RGMC) and contributes to the patterning of the developing nervous system. There is a potential association between RGMs and cancer bone metastasis, as RGMs coordinate bone morphogenetic protein (BMP) signaling. RGMB may act as a negative regulator in vitro in breast cancer and prostate cancer through BMP signalling. Furthermore, aberrant expression of RGMs was indicated in breast cancer. The perturbed expression was associated with disease progression and poor prognosis.
Molecular Weight:	48 kDa
Gene ID:	285704

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bell, C. H., Healey, E., van Erp, S., Bishop, B., Tang, C., Gilbert, R. J. C., Aricescu, A. R., Pasterkamp, R. J., Siebold, C. Structure of the repulsive guidance molecule (RGM)-neogenin signaling hub. Science 341: 77-80, 2013. 2. Gross, M. B. Personal Communication. Baltimore, Md. 3/20/2012. 3. Samad, T. A., Rebbapragada, A., Bell, E., Zhang, Y., Sidis, Y., Jeong, S.-J., Campagna, J. A., Perusini, S., Fabrizio, D. A., Schneyer, A. L., Lin, H. Y., Brivanlou, A. H., Attisano, L., Woolf, C. J. DRAGON, a bone morphogenetic protein co-receptor. J. Biol. Chem. 280: 14122-14129, 2005.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.