

Datasheet for ABIN7600387
anti-AGRN antibody (AA 1864-2068)



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Overview

Quantity:	100 µg
Target:	AGRN
Binding Specificity:	AA 1864-2068
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AGRN antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Agrin/AGRN Picoband® Antibody
Immunogen:	E.coli-derived human Agrin/AGRN recombinant protein (Position: S1864-P2068).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Agrin/AGRN Picoband® Antibody (ABIN7600387). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. 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:	AGRN
Alternative Name:	AGRN (AGRN Products)
Background:	Synonyms: Agrin, Agrin N-terminal 110 kDa subunit, Agrin C-terminal 110 kDa subunit, Agrin C-terminal 90 kDa fragment, C90, Agrin C-terminal 22 kDa fragment, C22, AGRN, AGRIN Tissue Specificity: Brain specific. Detected in neuronal cells. Background: Agrin is a protein that in humans is encoded by the AGRN gene. It is mapped to 1p36.33. This gene encodes one of several proteins that are critical in the development of the neuromuscular junction (NMJ), as identified in mouse knock-out studies. The encoded protein contains several laminin G, Kazal type serine protease inhibitor, and epidermal growth factor domains. Additional post-translational modifications occur to add glycosaminoglycans and disulfide bonds. In one family with congenital myasthenic syndrome affecting limb-girdle muscles, a mutation in this gene was found. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Weight:	205-217 kDa
Gene ID:	375790
UniProt:	O00468
Pathways:	Glycosaminoglycan Metabolic Process , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bassat, E., Mutlak, Y. E., Genzelinakh, A., Shadrin, I. Y., Umansky, K. B., Yifa, O., Kain, D., Rajchman, D., Leach, J., Bassat, D. R., Udi, Y., Sarig, R., Sagi, I., Martin, J. F., Bursac, N., Cohen, S., Tzahor, E. The extracellular matrix protein agrin promotes heart regeneration in mice. <i>Nature</i> 547: 179-184, 2017. 2. Burgess, R. W., Nguyen, Q. T., Son, Y. J., Lichtman, J. W., Sanes, J. R. Alternatively spliced isoforms of nerve- and muscle-derived agrin: their roles at the neuromuscular junction. <i>Neuron</i> 23: 33-44, 1999. 3. Campanelli, J. T., Hoch, W., Rupp, F., Kreiner, T., Scheller, R. H. Agrin mediates cell contact-induced acetylcholine receptor clustering. <i>Cell</i> 67: 909-916, 1991.
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Application Details

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 , 0.05 mg NaN ₃ .
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.