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Agrin Rabbit pAb

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Catalog # AP54236

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00468
Reactivity	Mouse
Predicted	Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	217320
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Agrin
Epitope Specificity	1151-1245/2045
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix. Note=Synaptic basal lamina at the neuromuscular junction.
DISEASE	Defects in AGRN are a cause of myasthenia, limb-girdle, familial (LGM) [MIM:254300]. A congenital myasthenic syndrome characterized by a typical 'limb girdle' pattern of muscle weakness with small, simplified neuromuscular junctions but normal acetylcholine receptor and acetylcholinesterase function.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Aug 2011].

Additional Information

Gene ID	375790
Other Names	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
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

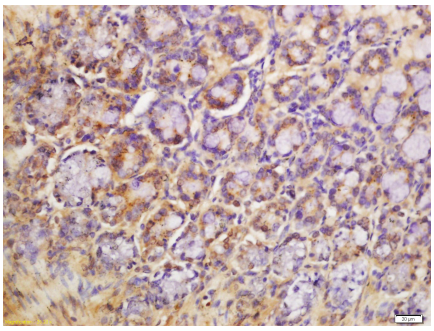
Protein Information

Name	AGRN
Synonyms	AGRIN
Function	Depending on alternative splicing and post-translational modifications, it has a role in different processes, including neuromuscular junction formation and maintenance, and regulation of neurite outgrowth (By similarity). Also involved in positive regulation of cartilage formation through alpha-dystroglycan binding and up- regulation of SOX9 (PubMed:26290588).
Cellular Location	[Isoform 1]: Secreted, extracellular space, extracellular matrix. Note=Synaptic basal lamina at the neuromuscular junction. {ECO:0000250|UniProtKB:P31696}
Tissue Location	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

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Images



Tissue/cell: mouse colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-Agrin Polyclonal Antibody, Unconjugated(AP54236) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.