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C1orf187/Draxin Rabbit pAb

Catalog # AP97776

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8NBI3
Other Accession	Q8NBI3
Predicted	Rat, Pig, Human, Mouse, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38650
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C1orf187
Epitope Specificity	261-349/349
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the draxin family.
SUBUNIT	Interacts with LRP6 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C1orf187, also known as Draxin, Dorsal repulsive axon guidance protein and Neucrin, is a 349 amino acid secreted protein that is required of the development of the spinal cord and forebrain commissures. C1orf187 acts as a chemorepulsive guidance protein and directs commissural axons during development by repelling neurite outgrowth from the spinal cord. During development, C1orf187 modulates neural crest migration by reducing the polarization of these cells, leading to reduced velocity of migration and increased frequency of changing direction, leading to a net decrease in migrational distance. It acts as an antagonist of the Wnt signaling pathway by inhibiting the stabilization of cytosolic β-catenin via its interaction with LRP6. C1orf187 inhibits outgrowth from the olfactory bulb and likely contributes to the formation of the lateral olfactory tract.

Additional Information

Gene ID	374946
Other Names	DRAXI_HUMAN; DRAXIN; Dorsal inhibitory axon guidance protein; Dorsal repulsive axon guidance protein; Neucrin; C1orf187; AGPA3119; UNQ3119; chromosome 1 open reading frame 187; neural tissue-specific cysteine-rich protein
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	DRAXIN {ECO:0000255|HAMAP-Rule:MF_03060}
Synonyms	C1orf187
Function	Chemorepulsive axon guidance protein required for the development of spinal cord and forebrain commissures. Acts as a chemorepulsive guidance protein for commissural axons during development. Able to inhibit or repel neurite outgrowth from dorsal spinal cord. Inhibits the stabilization of cytosolic beta-catenin (CTNNB1) via its interaction with LRP6, thereby acting as an antagonist of Wnt signaling pathway.
Cellular Location	Secreted.

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