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LRRTM4 Rabbit pAb

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Catalog # AP54656

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q86VH4
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67217
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRRTM4
Epitope Specificity	135-250/590
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	Cell membrane; Single-pass type I membrane protein (By similarity). Cell junction, synapse, postsynaptic cell membrane; Single-pass type I membrane protein
SIMILARITY	Belongs to the LRRTM family. Contains 10 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic □/∫ horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. The LRRTM protein family plays a role in the regulation of various cellular events during nervous system development. Localizing predominantly to the nervous system, LRRTM family members are known to exhibit synaptogenic activity. LRRTM4 (leucine-rich repeat transmembrane neuronal protein 4) is a 590 amino acid member of the LRRTM protein family. Expressed in neuronal tissues, LRRTM4 may play a role in the development and maintenance of the vertebrate nervous system. A single-pass type I membrane protein, LRRTM4 contains 10 LRR repeats. LRRTM4 is expressed as two isoforms produced by alternative splicing.

Additional Information

Gene ID	80059
Other Names	Leucine-rich repeat transmembrane neuronal protein 4, LRRTM4
Target/Specificity	Expressed in neuronal tissues.

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	LRRTM4
Function	May play a role in the development and maintenance of the vertebrate nervous system. Exhibits strong synaptogenic activity, restricted to excitatory presynaptic differentiation (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Postsynaptic cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in neuronal tissues.

Background

The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic □/∫ horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. The LRRTM protein family plays a role in the regulation of various cellular events during nervous system development. Localizing predominantly to the nervous system, LRRTM family members are known to exhibit synaptogenic activity. LRRTM4 (leucine-rich repeat transmembrane neuronal protein 4) is a 590 amino acid member of the LRRTM protein family. Expressed in neuronal tissues, LRRTM4 may play a role in the development and maintenance of the vertebrate nervous system. A single-pass type I membrane protein, LRRTM4 contains 10 LRR repeats. LRRTM4 is expressed as two isoforms produced by alternative splicing.