10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LRRTM2 Rabbit pAb

Catalog # AP98108

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O43300
Other Accession	O43300
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59076
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRRTM2
Epitope Specificity	81-200/516
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 LRRTM family. Contains 10 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain.
SUBUNIT	Interacts with DLG4 and NRXN1
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 Alpha/Beta 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. LRRTM2 (leucine rich repeat transmembrane neuronal 2), also known as LRRN2, is a 516 amino acid single-pass type I membrane protein involved in the development maintenance of the vertebrate nervous system. Expressed in kidney and neuronal tissues, LRRTM2 contains ten LRR repeats and belongs to the LRRTM family. LRRTM2 is encoded by a gene that maps to human chromosome 5q31.2.

Additional Information

Gene ID	26045
Other Names	C630011A14Rik; mKIAA0416; LRRT2_HUMAN; LRRTM2; Leucine-rich repeat neuronal 2 protein; KIAA0416; LRRN2; LRRT2_MOUSE; LRRT2_RAT; leucine rich repeat transmembrane neuronal 2
Dilution	WB=1:500-2000,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	LRRTM2
Synonyms	KIAA0416, LRRN2
Function	Involved in the development and maintenance of excitatory synapses in the vertebrate nervous system. Regulates surface expression of AMPA receptors and instructs the development of functional glutamate release sites. Acts as a ligand for the presynaptic receptors NRXN1-A and NRXN1-B (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Postsynaptic cell membrane; Single-pass type I membrane protein. Note=Localized to excitatory synapses
Tissue Location	Expressed in neuronal tissues.

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