



Rabbit Anti-LRRTM1 antibody

SL11213R

Product Name:	LRRTM1
Chinese Name:	富含亮氨酸重复跨膜神经元蛋白1抗体
Alias:	Leucine rich repeat transmembrane neuronal 1; Leucine rich repeat transmembrane neuronal 1 protein; Leucine-rich repeat transmembrane neuronal protein 1; LRRT1_HUMAN; LRRTM1; Lrrtm1 leucine rich repeat transmembrane neuronal 1; OTTHUMP00000194829; 4632401D06Rik; AW125451; FLJ32082.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LRRTM1:151-250/522<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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. LRRTM1 (leucine rich repeat transmembrane neuronal 1) is a 522 amino acid single-pass type I membrane protein that localizes to the endoplasmic reticulum and contains ten LRR repeats. Expressed predominately in forebrain tissue, LRRTM1 is thought to be involved in the development of forebrain structures, specifically by influencing axon trafficking, as well as neuronal differentiation and connectivity. Human LRRTM1 shares 96% amino acid identity with its mouse counterpart, suggesting a conserved role between species. Defects in the gene encoding LRRTM1 may be associated with the pathogenesis of several common neurodevelopmental disorders.

Function:

May play a role during the development of specific forebrain structures by influencing neuronal differentiation and connectivity, with a possible role in intracellular trafficking within axons.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein (By similarity). Cell junction, synapse, postsynaptic cell membrane; Single-pass type I membrane protein (By similarity).

Tissue Specificity:

Predominantly expression in forebrain regions including thalamus and cerebral cortex.

Similarity:

Belongs to the LRRTM family.
Contains 10 LRR (leucine-rich) repeats.
Contains 1 LRRCT domain.
Contains 1 LRRNT domain.

SWISS:

Q86UE6

Gene ID:

347730

Database links:

[Entrez Gene: 347730](#)Human

[Entrez Gene: 74342](#)Mouse

[Omim: 610867](#)Human

[SwissProt: Q86UE6](#)Human

[SwissProt: Q8K377](#)Mouse

[Unigene: 591580](#)Human

[Unigene: 292568](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com