



## Rabbit Anti-LRRTM2 antibody

SL11877R

<b>Product Name:</b>	LRRTM2
<b>Chinese Name:</b>	富含亮氨酸重复跨膜神经元蛋白2抗体
<b>Alias:</b>	KIAA0416; Leucine rich repeat transmembrane neuronal 2; Leucine rich repeat transmembrane neuronal 2 protein; Leucine rich repeat transmembrane protein 2; Leucine-rich repeat neuronal 2 protein; Leucine-rich repeat transmembrane neuronal protein 2; LRRN2; LRRT2_HUMAN; Lrrtm2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	55kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human LRRTM2:81-200/516<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**Function:**

Involved in the development and maintenance of excitatory synapse in the vertebrate nervous system. Regulates surface expression of AMPA receptors. Acts as a ligand for the presynaptic receptors NRXN1-A and NRXN1-B.

**Subunit:**

Interacts with DLG4 and NRXN1

**Subcellular Location:**

Cell membrane; Single-pass type I membrane protein. Cell junction, synapse, postsynaptic cell membrane; Single-pass type I membrane protein (By similarity).  
Note=Localized to excitatory synapses

**Tissue Specificity:**

Expressed in neuronal tissues.

**Similarity:**

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

**SWISS:**

O43300

**Gene ID:**

26045

**Database links:**

[Entrez Gene: 26045](#)Human

[Entrez Gene: 107065](#)Mouse

[Entrez Gene: 685472](#)Rat

[Oimim: 610868](#)Human

[SwissProt: O43300](#)Human

[SwissProt: Q8BGA3](#)Mouse

[SwissProt: D4A7P2](#)Rat

[Unigene: 656653](#)Human

[Unigene: 39900](#)Mouse

[Unigene: 218238](#)Rat

**Important Note:**

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

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)