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Rabbit Anti-Paralemmin 1 antibody

SL12035R

Product Name	Paralemmin 1
Chinese Name	The cell membrane 调控蛋白 Paralemmin 1 抗体
Alias	KIAA0270; PALM; PALM_HUMAN; Paralemmin; Paralemmin1;Paralemmin-1.
Research Area	Cell biology Neurobiology Signal transduction G protein-coupled receptor G protein signal The 蛋白
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Paralemmin 1: 130-230/387
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.
PubMed	PubMed
Product Detail	Paralemmin, also called Paralemmin-1 or PALM, is a widely expressed peripheral membrane pr involved in cell structure and shape. A hydrophobic protein, Paralemmin is anchored to the cyto

the cell membrane via di-palmitoylation and prenylation of its C-terminal cysteine cluster. Funct
synapse to regulate neuronal plasticity and plasma membrane dynamics, Paralemmin can bind to
receptor D3, thereby reducing D3 expression and subsequent adenylate cyclase activity. Overexp
Paralemmin induces fibroblasts to extend long filopodia and to assume extreme cell shapes, sugg
involvement in the formation and stabilization of the plasma membrane. Two isoforms of Paralem
to alternative splicing events.

Function:
Involved in plasma membrane dynamics and cell process formation. Isoform 1 and isoform 2 are
axonal and dendritic filopodia induction, for dendritic spine maturation and synapse formation in
palmitoylation-dependent manner.

Subunit:
Interacts with dopamine receptor DRD3.

Subcellular Location:
Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, filopodium membrane; Lipid-a
projection, axon (By similarity). Cell projection, dendrite (By similarity). Cell projection, dendri
similarity). Basolateral cell membrane; Lipid-anchor (By similarity). Apicolateral cell membrane
(By similarity). Note=Translocation to the plasma membrane is enhanced upon stimulation of ne

Tissue Specificity:
Widely expressed with highest expression in brain and testis and intermediate expression in hear
gland.

Similarity:
Belongs to the paralemmin family.

SWISS:
O75781

Gene ID:
5064

Database links:

Entrez Gene: 5064 Human

Entrez Gene: 18483 Mouse

Entrez Gene: 170673 Rat

Omim: 608134 Human

SwissProt: O75781 Human

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SwissProt: Q9Z0P4 Mouse

SwissProt: Q920Q0 Rat

Unigene: 631841 Human