

Paralemmin 1 Rabbit pAb

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Catalog # AP54711

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75781
Predicted	Rat, Pig, Dog, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42076
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Paralemmin 1
Epitope Specificity	130-230/387
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; Lipid-anchor; Cytoplasmic side. Cell projection, filopodium membrane; Lipid-anchor. Cell projection, axon (By similarity). Cell projection, dendrite (By similarity). Cell projection, dendritic spine (By similarity). Basolateral cell membrane; Lipid-anchor (By similarity). Apicolateral cell membrane; Lipid-anchor (By similarity). Note=Translocation to the plasma membrane is enhanced upon stimulation of neuronal activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Paralemmin, also called Paralemmin-1 or PALM, is a widely expressed peripheral membrane protein that is involved in cell structure and shape. A hydrophobic protein, Paralemmin is anchored to the cytoplasmic side of the cell membrane via di-palmitoylation and prenylation of its C-terminal cysteine cluster. Functioning at the synapse to regulate neuronal plasticity and plasma membrane dynamics, Paralemmin can bind to the dopamine receptor D3, thereby reducing D3 expression and subsequent adenylate cyclase activity. Overexpression of Paralemmin induces fibroblasts to extend long filopodia and to assume extreme cell shapes, suggesting involvement in the formation and stabilization of the plasma membrane. Two isoforms of Paralemmin exists due to alternative splicing events.

Additional Information

Gene ID	5064
Other Names	Paralemmin-1, Paralemmin, PALM, KIAA0270
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.
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Protein Information

Name	PALM
Synonyms	KIAA0270
Function	Involved in plasma membrane dynamics and cell process formation. Isoform 1 and isoform 2 are necessary for axonal and dendritic filopodia induction, for dendritic spine maturation and synapse formation in a palmitoylation-dependent manner.
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, filopodium membrane; Lipid-anchor. Cell projection, axon Cell projection, dendrite. Cell projection, dendritic spine. Basolateral cell membrane; Lipid- anchor. Apicolateral cell membrane; Lipid- anchor. Note=Translocation to the plasma membrane is enhanced upon stimulation of neuronal activity
Tissue Location	Widely expressed with highest expression in brain and testis and intermediate expression in heart and adrenal gland

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