SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-ARF6 antibody

Catalog Number: SL1145R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ARF6
Immunogen:	KLH conjugated synthetic peptide derived from human ARF6: 101-175/175
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Pig,Horse,Rabbit,Dog)
Predicted MW.:	20kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	This gene encodes a member of the human ARF gene family, which is part of the RAS superfamily. The ARF genes encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. The product of this gene is localized to the plasma membrane, and regulates vesicular trafficking, remodelling of membrane lipids, and signaling pathways that lead to actin remodeling. A pseudogene of this gene is located on chromosome 7. **Function:** GTP-binding protein involved in protein trafficking; regulates endocytic recycling and cytoskeleton remodeling. May modulate vesicle budding and uncoating within the Golgi apparatus. Functions as an allosteric activator of the cholera toxin catalytic subunit, an ADP-ribosyltransferase.

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

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	Involved in the regulation of dendritic spine development. Contributes to the regulation of dendritic branching and filopodia extension. **Subunit:** Interacts with ARHGAP21, ASAP2, HERC1, PIP5K1C and UACA. Interacts with NCS1/FREQ at the plasma membrane. Interacts with RAB11FIP3 and RAB11FIP4. Interacts with USP6 (via Rab-GAP TBC domain). Interacts with ECM29. Interacts with TBC1D24. **Subcellular Location:** Golgi apparatus. Cell membrane; Lipid-anchor. Endosome membrane; Lipid-anchor. Cell membrane. Cell projection, filopodium membrane; Lipid-anchor. Note=Recruited to the cell membrane in association with CYTH2 and ARL4C. **Similarity:** Belongs to the small GTPase superfamily. Arf family. **Database links:** **Entrez Gene:** 382 Human **Entrez Gene:** 11845 Mouse **Entrez Gene:** 780425 Pig **Entrez Gene:** 79121 Rat Omim: 600464 Human **SwissProt:** P26990 Chicken **SwissProt:** P62330 Human **SwissProt:** P62331 Mouse **SwissProt:** Q007T5 Pig **SwissProt:** P62332 Rat **Unigene:** 525330 Human **Unigene:** 719973 Human **Unigene:** 27308 Mouse **Unigene:** 6993 Rat ARF6 is mainly used in: Tumour research; it has certain expression and distribution in many Tumour tissues. Technical background: rRNA processing, endoplasmic reticulum-Golgi vesicle-mediated transport, cells motility, cells adhesion, small GTP enzyme-mediated Signal transduction, protein transport, vesicle-mediated transport, positive regulation of actin filament polymerization, cortical actin Cytoskeleton organization and biogenesis, ruffle organization and biogenesis, regulation of Rac protein Signal transduction, negative regulation of Receptor-mediated endocytosis.

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