SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-RAPGEF2 antibody

Catalog Number: SL11581R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	RAPGEF2
Immunogen:	KLH conjugated synthetic peptide derived from human RAPGEF2: 501-600/1499
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:	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 （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, Dog, Pig, Cow, Rabbit, Sheep)
Predicted MW.:	167kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	SummaryMembers of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF2, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM, Mar 2008] **Function:** Guanine nucleotide exchange factor (GEF) for Rap1A, Rap1B and Rap2B GTPases. Does not interact with cAMP or cGMP.

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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	Subunit: Interacts with MAGI2. **Subcellular Location:** Cell membrane (By similarity). Note=Associated with the synaptic plasma membrane **Tissue Specificity:** Highest expression levels in brain. Lower expression levels in heart, kidney, lung, and placenta. **Post-translational modifications:** Phosphorylation by PLK2 promotes its activity (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Contains 1 cyclic nucleotide-binding domain. Contains 1 N-terminal Ras-GEF domain. Contains 1 PDZ (DHR) domain. Contains 1 Ras-associating domain. Contains 1 Ras-GEF domain. **Database links:** **Entrez Gene:** 9693 Human Omim: 609530 Human **SwissProt:** Q9Y4G8 Human **Unigene:** 723853 Human

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