



## Rabbit Anti-RAPGEF2 antibody

SL11581R

<b>Product Name:</b>	RAPGEF2
<b>Chinese Name:</b>	Rap鸟嘌呤核苷酸交换因子2抗体
<b>Alias:</b>	KIAA0313; Neural RAP guanine nucleotide exchange protein; nRap GEP; NRAPGEP; PDZ domain containing guanine nucleotide exchange factor 1; PDZ domain-containing guanine nucleotide exchange factor 1; PDZ GEF1; PDZ-GEF1; PDZGEF1; RA GEF; RA-GEF; Rap guanine nucleotide exchange factor 2; Rapgef2; RPF2_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,
<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>	167kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human RAPGEF2:501-600/1499
<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>	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.

**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.

**SWISS:**

Q9Y4G8

**Gene ID:**

9693

**Database links:**

[Entrez Gene: 9693](#) Human

[Omim: 609530](#) Human

[SwissProt: Q9Y4G8](#) Human

[Unigene: 723853](#) Human

**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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