



Rabbit Anti-RAGEF2 antibody

SL13698R

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| Product Name: | RAGEF2 |
| Chinese Name: | RAGEF2蛋白抗体 |
| Alias: | DKFZp667N084; DKFZp686I15116; KIA001LB; PDZ domain containing guanine nucleotide exchange factor (GEF) 2; PDZ domain containing guanine nucleotide exchange factor 2; PDZ domain containing guanine nucleotide exchange factor I; PDZ domain-containing guanine nucleotide exchange factor 2; PDZ GEF 2; PDZ GEF2; PDZ-GEF2; PDZGEF 2; PDZGEF2; RA GEF 2; RA GEF2; RA-GEF-2; RAGEF 2; Rap guanine nucleotide exchange factor (GEF) 6; Rap guanine nucleotide exchange factor 2; Rap guanine nucleotide exchange factor 6; RAPGEF6; RPF6 HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Rabbit, |
| Applications: | ELISA=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. |
| Molecular weight: | 179kDa |
| Cellular localization: | cytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human RAGEF2:601-700/1601 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | 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. |
| PubMed: | PubMed |
| Product Detail: | RAPGEF6 is a guanine nucleotide exchange factor (GEF) that is expressed in a variety |

of tissues. Localizing to the cytoplasm and translocated to the plasma membrane upon ligand binding, RAPGEF6 contains an N-terminal Ras-GEF domain, a cyclic nucleotide monophosphate-binding domain, a PDZ (PSD-95/DlgA/ZO-1) domain, a Ras-associating (RA) domain and a Ras exchanger motif. RAPGEF6 is closely related to RAPGEF2 and both proteins exhibit GEF activity specific towards Rap 1 and Rap 2. In addition, RAPGEF6 is capable of binding to M-Ras via its RA domain. Due to alternative splicing events, two additional isoforms exist for RAPGEF6, namely PDZ-GEF2A and PDZ-GEF2B.

Function:

Guanine nucleotide exchange factor (GEF) for Rap1A, Rap2A and M-Ras GTPases. Does not interact with cAMP.

Subcellular Location:

Cytoplasm. Cell membrane. Upon binding to M-Ras, it translocates to the plasma membrane.

Tissue Specificity:

Isoform 3 has highest expression levels in the brain, heart, liver, lung and placenta and is barely detectable in skeletal muscle, kidney and pancreas.

Post-translational modifications:

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:

Q8TEU7

Gene ID:

51735

Database links:

[Entrez Gene: 51735](#) Human

[Omim: 610499](#) Human

[SwissProt: Q8TEU7](#) Human

[Unigene: 483329](#) Human

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

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