



Rabbit Anti-DOCK7 antibody

SL11825R

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| Product Name: | DOCK7 |
| Chinese Name: | 胞质分裂专一蛋白7抗体 |
| Alias: | dedicator of cytokinesis 7; Dedicator of cytokinesis protein 7; Gm430; KIAA1771 ; MGC189434; mKIAA1771; RP23 329P19.2; ZIR2; DOCK7_HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep, |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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: | 242kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human DOCK7:1401-1500/2140 |
| 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: | DOCK 7 is a 2,140 amino acid protein that localizes to developing axons and contains one DHR-1 domain and one DHR-2 domain. Expressed in a variety of tissues, DOCK 7 functions as a guanine nucleotide exchange factor (GEF) that specifically activates Rac 1 and Rac 3 by catalyzing the exchange of bound GDP for free GTP. Multiple isoforms of DOCK 7 exist due to alternative splicing events. |

Function:

DOCK7 functions as a guanine nucleotide exchange factor (GEF), which activates Rac1 and Rac3 Rho small GTPases by exchanging bound GDP for free GTP. It does not have a GEF activity for CDC42. It is required for STMN1 'Ser-15' phosphorylation during axon formation and consequently for neuronal polarization.

Subunit:

Interacts with TSC1. Interacts with nucleotide-free RAC1 and RAC3.

Subcellular Location:

Cell projection,

Tissue Specificity:

Widely expressed.

Similarity:

Belongs to the DOCK family.

Contains 1 DHR-1 domain.

Contains 1 DHR-2 domain.

SWISS:

Q96N67

Gene ID:

85440

Database links:

[Entrez Gene: 85440](#)Human

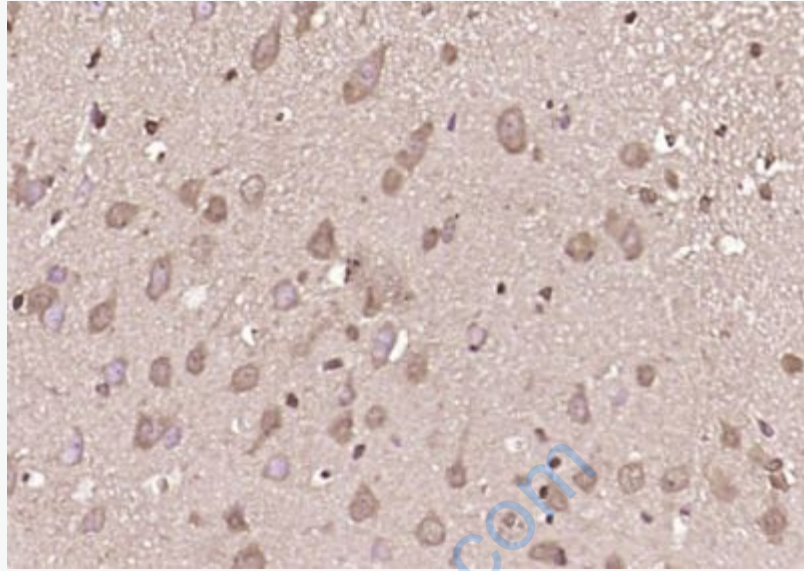
[GenBank: BC016392.1](#)Human

[SwissProt: Q96N67](#)Human

[Unigene: 406156](#)Human

Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DOCK7) Polyclonal Antibody, Unconjugated (SL11825R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.