

# DOCK7 Rabbit pAb

DOCK7 Rabbit pAb  
Catalog # AP54639

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Primary Accession</b>       | <a href="#">Q96N67</a>                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>              | Rat                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Predicted</b>               | Dog, Human, Mouse, Rabbit, Chicken, Horse, Sheep                                                                                                                                                                                                                                                                                                                                                      |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Calculated MW</b>           | 242561                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human DOCK7                                                                                                                                                                                                                                                                                                                                             |
| <b>Epitope Specificity</b>     | 1401-1500/2140                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                     |
| <b>SUBCELLULAR LOCATION</b>    | Cell projection,                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                             |
| <b>Background Descriptions</b> | 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. |

## Additional Information

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| <b>Gene ID</b>     | 85440                                                                                                                                                                                           |
| <b>Other Names</b> | Dedicator of cytokinesis protein 7, DOCK7, KIAA1771                                                                                                                                             |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                    |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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. |

## Protein Information

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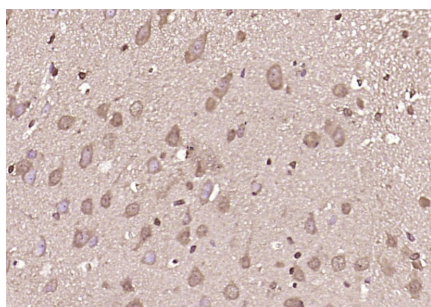
|             |       |
|-------------|-------|
| <b>Name</b> | DOCK7 |
|-------------|-------|

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| <b>Synonyms</b>          | KIAA1771                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>          | Functions as a guanine nucleotide exchange factor (GEF), which activates Rac1 and Rac3 Rho small GTPases by exchanging bound GDP for free GTP. Does not have a GEF activity for CDC42. Required for STMN1 'Ser-15' phosphorylation during axon formation and consequently for neuronal polarization (PubMed: <a href="#">16982419</a> ). As part of the DISP complex, may regulate the association of septins with actin and thereby regulate the actin cytoskeleton (PubMed: <a href="#">29467281</a> ). Has a role in pigmentation (By similarity). Involved in the regulation of cortical neurogenesis through the control of radial glial cells (RGCs) proliferation versus differentiation; negatively regulates the basal- to-apical interkinetic nuclear migration of RGCs by antagonizing the microtubule growth-promoting function of TACC3 (By similarity). |
| <b>Cellular Location</b> | Cell projection, axon. Note=Enriched in the developing axons of hippocampal neurons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Location</b>   | Widely expressed..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Background

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## Images



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 (AP54639) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.