

ARG45063 anti-DIAPH3 antibody

Package: 50 µl
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes DIAPH3 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | DIAPH3 |
| Species | Human |
| Immunogen | DIAPH3 synthetic peptide corresponding to amino acid residues near the C-terminus of human DIAPH3. This peptide sequence is highly conserved in rat and mouse DIAPH3, and has low homology to other formins. |
| Conjugation | Un-conjugated |
| Alternate Names | DIAPH3; Diaphanous Related Formin 3; DRF3; NSDAN; AN; Protein Diaphanous Homolog 3; FLJ34705; AUNA1; MDia2; Auditory Neuropathy, Autosomal Dominant 1; Diaphanous (Drosophila, Homolog) 3; Diaphanous Homolog 3 (Drosophila); Diaphanous-Related Formin-3; Diaphanous Homolog 3; Diap3; DIAP3; DIA2 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|----------|
| | WB | 1:1000 |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

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| Form | Liquid |
| Purification | Antigen Affinity Purified. |
| Buffer | PBS, 0.05% NaN ₃ , 50% Glycerol and 0.1 % BSA. |
| Stabilizer | 50% Glycerol and 0.1 % BSA |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Gene Symbol | DIAPH3 |
| Gene Full Name | Diaphanous Related Formin 3 |
| Background | This gene encodes a member of the diaphanous subfamily of the formin family. Members of this family are involved in actin remodeling and regulate cell movement and adhesion. Mutations in this gene are associated with autosomal dominant auditory neuropathy 1. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012] |
| Function | Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers. Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor. Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization. DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics. Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity. [Uniprot] |
| Calculated Mw | 137 kDa |
| PTM | Phosphoprotein, Ubl conjugation. [Uniprot] |
| Cellular Localization | Cytoplasm, Nucleus. [Uniprot] |