Datasheet for ABIN1387366

# anti-DIAPH1 antibody (AA 41-150)

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | DIAPH1 |
| Binding Specificity: | AA 41-150 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This DIAPH1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human DIAPH1 |
| Isotype: | IgG |
| Predicted Reactivity: | Human,Mouse,Dog,Horse,Rabbit |
| Purification: | Purified by Protein A. |

## Target Details

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| Target: | DIAPH1 |
| Alternative Name: | Diaph1 (DIAPH1 Products) |

## Target Details

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| Background: | Synonyms: DIAPH1, FLJ25265, Deafness autosomal dominant 1, deafness, autosomal dominant 1, DFNA1, DIAP1, DIAP1_HUMAN, DIAPH1, diaphanous homolog 1, Diaphanous protein homolog 1, Diaphanous related formin 1, Diaphanous-related formin-1, DRF1, hDIA1, LFHL1, low frequency hearing loss 1, p140DIA, Protein diaphanous homolog 1.<br>Background: Acts in a Rho-dependent manner to recruit PFY1 to the membrane. Required for the assembly of F-actin structures, such as actin cables and stress fibers. Nucleates actin filaments. Binds to the barbed end of the actin filament and slows down actin polymerization and depolymerization. Required for cytokinesis, and transcriptional activation of the serum response factor. DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics. Functions as a scaffold protein for MAPRE1 and APC to stabilize microtubules and promote cell migration (By similarity). Has neurite outgrowth promoting activity (By similarity). In hear cells, it may play a role in the regulation of actin polymerization in hair cells. The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization. |
| Gene ID: | 1729 |
| Pathways: | Sensory Perception of Sound |

## Application Details

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| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 1 μg/μL |

 

## Handling

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| Buffer: | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

 