

DIAPH1 Rabbit mAb

Catalog No: #49974



Package Size: #49974-1 50ul #49974-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

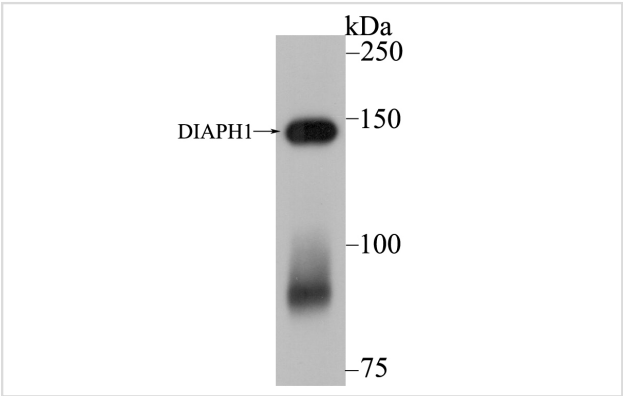
Description

| | |
|-----------------------|--|
| Product Name | DIAPH1 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | JE40-59 |
| Purification | ProA affinity purified |
| Applications | WB,ICC,IF,IHC |
| Species Reactivity | Hu |
| Immunogen Description | Recombinant protein corresponding to N-terminal human DIAPH1. |
| Other Names | DIAPH1 antibody deafness, autosomal dominant 1 antibody DFNA1 antibody DIA1 antibody DIAP1 antibody DIAP1_HUMAN antibody DIAPH1 antibody Diaphanous homolog 1 (Drosophila) antibody diaphanous homolog 1 antibody Diaphanous related formin 1 antibody Diaphanous-related formin-1 antibody DRF1 antibody FLJ25265 antibody hDIA1 antibody LFHL1 antibody low frequency hearing loss 1 antibody p140DIA antibody Protein diaphanous homolog 1 antibody |
| Accession No. | Swiss-Prot#:O60610 |
| Uniprot | O60610 |
| GeneID | 1729; |
| Calculated MW | 141 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

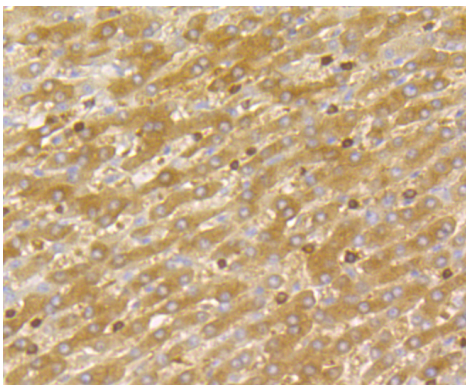
Application Details

WB: 1:5,000-1:10,000 IHC: 1:50-1:100ICC: 1:50

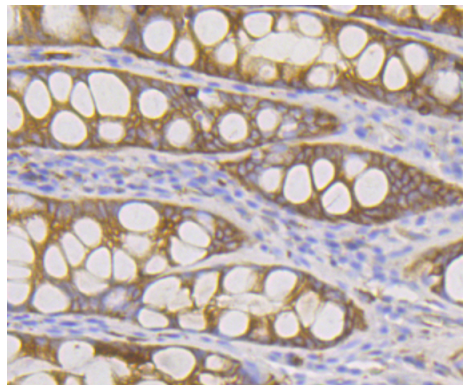
Images



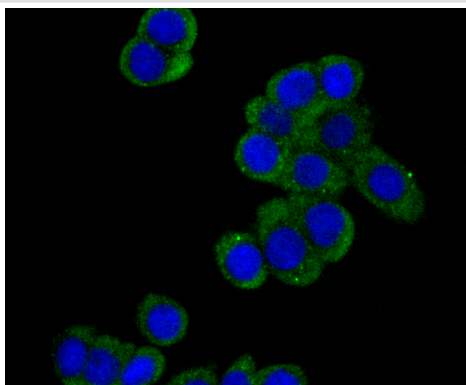
Western blot analysis of DIAPH1 on SiHa cell lysate using anti-DIAPH1 antibody at 1/5,000 dilution.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-DIAPH1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-DIAPH1 antibody. Counter stained with hematoxylin.



ICC staining DIAPH1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Dia 1, also known as DIAPH1 (diaphanous homolog 1) or DRF1, a mammalian homolog of the *Drosophila* diaphanous gene, belongs to a family of formin homology (FH) proteins which are characterized by having tandemly aligned FH1 (formin homology 1) and FH2 (formin homology 2) domains in their carboxy terminal regions. Dia 1 contains a DAD (diaphanous autoregulatory) domain, which is involved in the elongation of actin filaments, and a GBD/FH3 (Rho GTPase-binding/formin homology 3) domain, which interacts with the DAD domain via autoinhibitory interactions to regulate the activation of Dia 1. Dia 1 is required for the assembly of F-actin structures, and regulates the polymerization and depolymerization of actin filaments. Localizing to the cell membrane, Dia 1 is expressed in a wide range of tissues, including brain, heart, lung and kidney. Defects to the gene encoding Dia 1 have been linked to deafness autosomal dominant type 1 (DFNA1), a disorder characterized by sensorineural hearing loss..

References

Note: This product is for in vitro research use only