DIAPH1 Conjugated Antibody

Catalog No: #C49974

Package Size: #C49974-AF350 100ul #C49974-AF405 100ul #C49974-AF488 100ul #C49974-AF555 100ul #C49974-AF594 100ul #C49974-AF647 100ul #C49974-AF680 100ul #C49974-AF750 100ul #C49974-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	DIAPH1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	Recombinant protein corresponding to N-terminal human DIAPH1.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	141 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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..

Note: This product is for in vitro research use only