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530-758-4400

PRODUCT DATASHEET

Anti-mDia2 (C-terminal region) Antibody

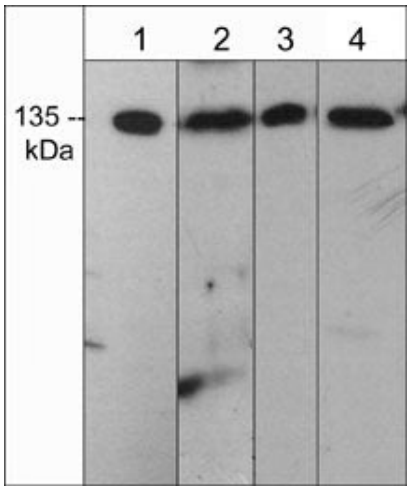
phosphosolutions ANTIBODIES THAT WORK

Product Details

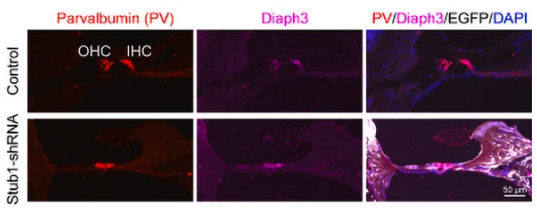
Available Variants	100 µL (SKU:DP3491)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	DIAPH2
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	mDia2 synthetic peptide (coupled to KLH) corresponding to amino acid residues in the C-terminal region of mouse mDia2 (Diap3). This peptide sequence is highly conserved in rat and human mDia2, and has low homology to other formins.
Specificity	The antibody detects a 135 kDa* protein corresponding to the apparent molecular mass of mDia2 on SDS-PAGE immunoblots of various cells and tissues, including human A431 and HeLa cells, mouse brain tissue and C2C12 cells, rat PC12 cells, and rabbit spleen fibroblasts.
Molecular Weight	135
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	Q9NSV4 UniProt Summary: Could be involved in oogenesis. Involved in the regulation of endosome dynamics. Implicated in a novel signal transduction pathway, in which isoform 3 and CSK are sequentially activated by RHOD to regulate the motility of early endosomes through interactions with the actin cytoskeleton.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	81624

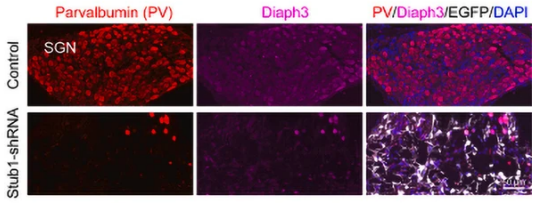
Product Images



Western blot analysis of mDia2 expression in rat PC12 (lane 1), human A431 (lane 2), mouse brain (lane 3), and rabbit spleen fibroblasts (lane 4). The blots were probed with anti-mDia2 (C-terminal region) at 1:500.



Immunofluorescent images showing Parvalbumin (hair cells, red) and Diaph3 (Cat. DP3491, 1:400, magenta) expression in cryo-sectioned cochlea (organ of Corti area). The knockdown of the endogenous Stub1 in mouse inner ear leads to severe hearing loss. AAV-ie vector containing GFP tag was used to package Stub1-shRNA. The left ear of P3 mice were injected with AAV-ie via round window membrane (RWM). Image from publication, CC-BY-4.0. PMID: 39322015.



Immunofluorescent images showing Parvalbumin (SGNs, red) and Diaph3 (Cat. DP3491, 1:400, magenta) expressions in cryo-sectioned cochlea (SGN area).The knockdown of the endogenous Stub1 in mouse inner ear leads to severe hearing loss. AAV-ie vector containing GFP tag was used to package Stub1-shRNA. The left ear of P3 mice were injected with AAV-ie via round window membrane (RWM). Image from publication, CC-BY-4.0. PMID: 39322015.

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