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PRODUCT DATASHEET

Anti-mDia1 (N-terminal region) Antibody

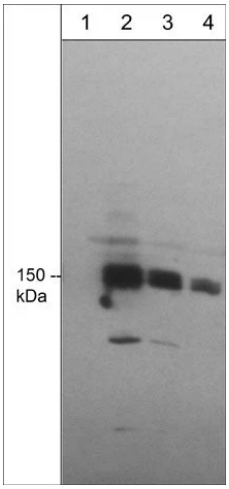
Product Details

Available Variants	100 µL (SKU:DP4471)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	DIAPH1
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	mDia1 synthetic peptide corresponding to amino acids from the N-terminal region of human mDia1 (Diap1). This peptide sequence is highly conserved in rat and mouse mDia1, and has low homology to other formins.
Specificity	The antibody detects a 140 kDa* protein corresponding to the apparent molecular mass of mDia1 on SDS-PAGE immunoblots of human K562, human Jurkat, and mouse C2C12 cells.
Molecular Weight	140
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	O60610 UniProt Summary: Actin nucleation and elongation factor required for the

assembly of F-actin structures, such as actin cables and stress fibers. 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. Has neurite outgrowth promoting activity. Acts in a Rho-dependent manner to recruit PFY1 to the membrane. 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. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the control of cell shape. Plays a role in brain development. 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.

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	1729

Product Images



Western blot analysis of mDia1 expression in human Jurkat cells (lanes 1-4). The blots were probed with anti-mDia1 (a.a. 66-77: DP4471) in the presence (lane 1) or absence of blocking peptide (DX4475) using dilutions of 1:250 (lane 2), 1:1000 (lane 3), and 1:4000 (lane 4).

Created on 21. November 2026 | All information without guarantee