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PRODUCT DATASHEET

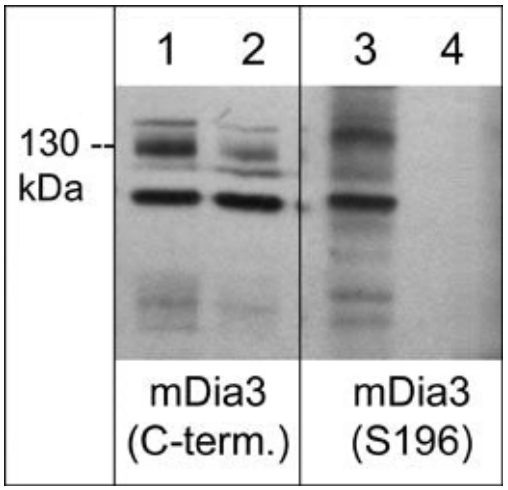
Anti-mDia3 (Ser-196)) [conserved site], Phosphospecific Antibody

Product Details

Available Variants	100 µL (SKU:DP4521)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	DIAPH3
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	Phospho-mDia3 (Ser-196) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding Ser-196 in human mDia3 (Diap2). This peptide sequence is identical in rat and mouse mDia3, and the site is well conserved in human mDia1/Diap1 (Ser-171) and mDia2/Diap3 (Ser-202).
Specificity	The antibody detects a 130 kDa* protein corresponding to the apparent molecular mass of mDia3 on SDS-PAGE immunoblots of human Jurkat treated with calyculin A. This reactivity is not observed after lambda phosphatase treatment. The antibody may also detect phosphorylated mDia1/Diap1 (Ser-171) and mDia2/Diap3 (Ser-202).
Molecular Weight	130
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	Q9Z207 UniProt Summary: Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers. Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor. Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization. DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics. 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.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-196
NCBI Gene ID	56419

Product Images



Western blot analysis of mDia3 expression in human Jurkat cells treated with Calyculin A (100 nM) (lanes 1-4). The blots were treated with lambda phosphatase (lanes 2 & 4), then probed with rabbit polyclonal anti-mDia3 (C-terminus; DP4511) (lanes 1 & 2) and anti-phospho-mDia3 (Ser-196; DP4521) (lanes 3 & 4).



Created on 20. November 2026 | All information without guarantee