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PRODUCT DATASHEET

Anti-α-Actinin 4 (Tyr-4), Phosphospecific Antibody

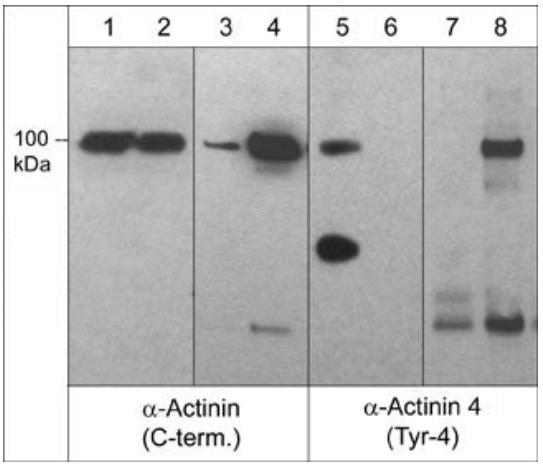
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:AP4241)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	ACTN4
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-α-actinin 4 (Tyr-4) synthetic peptide (coupled to carrier protein) corresponding to amino acids in the N-terminus of human α-actinin 4. This sequence is well conserved in rat and mouse α-actinin 4, but is not conserved in other α-actinins.
Specificity	The antibody detects a 100 kDa* protein corresponding to the molecular mass of α-actinin 4 on SDS-PAGE immunoblots of human A431 cells treated with pervanadate, but is not observed after akaline phosphatase treatment.
Molecular Weight	100
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	O43707 UniProt Summary: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein (Probable). Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation. Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions. May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA. Association with IGSF8 regulates the immune synapse formation and is required for efficient T-cell activation.
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	Tyr-4
NCBI Gene ID	81

Product Images



Western blot analysis of α-actinin 4 in A431 cells stimulated with pervanadate (1 mM) for 30 min (lanes 1,2,5.6) or after immunoprecipitation using α-actinin (C-terminal region) antibody in the absence (lanes 3 & 7) or presence of pervanadate-treated A431 cell lysate (lanes 4 & 8). Some lanes of the blot were treated with alkaline phosphatase (lanes 2 & 6). The blots were probed with anti-α-actinin (C-terminal region) or anti-α-actinin 4 (Tyr-4).



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