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PRODUCT DATASHEET

Anti-Profilin (Tyr-129), Phosphospecific Antibody

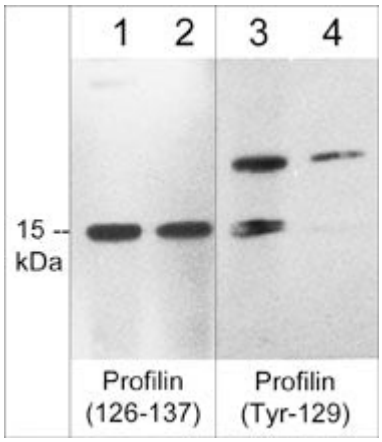
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:PP4751)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	PFN1
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-Profilin (Tyr-129) synthetic peptide (coupled to carrier protein) that includes amino acids surrounding Tyr-129 in human Profilin-1. This sequence is well conserved in rat and mouse Profilin-1. The tyrosine site has some homology to the conserved site (Tyr-129) in Profilin-2a and Profilin-2b, but the site is not conserved in Profiin-3 and Profilin-4.
Specificity	This antibody was cross-adsorbed to unphosphorylated Profilin (Tyr-129) then affinity purified using Profilin (Tyr-129) peptide (without carrier). The antibody detects a 15 kDa band corresponding to the apparent molecular mass of Profilin-1 in human umbilical vein endothelial cells (HUVEC) and jurkat cells treated with pervanadate. This reactivity is removed by alkaline phosphatase treatment.
Molecular Weight	15
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	P07737 UniProt Summary: Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Inhibits androgen receptor (AR) and HTT aggregation and binding of G-actin is essential for its inhibition of AR.
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-129
NCBI Gene ID	5216

Product Images



Western blot of HUVEC stimulated with Pervanadate (1 mM) for 30 min (lanes 1-4). The blots were treated with alkaline phosphatase to remove phosphorylation (lanes 2 & 4), then probed with anti-Profilin (a.a. 126-137) (lanes 1 & 2) or anti-Profilin (Tyr-129) phospho-specific (lanes 3 & 4). The antibodies detect profilin at 15 kDa. In lanes 3 & 4, the antibody also detects an unknown 20 kDa protein.



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