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Datasheet for ABIN2745561
anti-Profilin antibody (full length)

Overview

Quantity:	10 µg
Target:	Profilin (PFN)
Binding Specificity:	full length
Reactivity:	Human, Cow, Mouse, Pig, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Profilin antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC)

Product Details

Immunogen:	Human full-length profilin.
Specificity:	Recognizes human, mouse, rat, pig, bovine and marsupial profilin.
Cross-Reactivity:	Cow (Bovine), Human, Mouse (Murine), Pig (Porcine), Rat (Rattus)
Purification:	Antigen affinity purified.
Components:	Contains Positive Control: Human platelet protein (Prod. No. AG-35T-0001), 500µg supplied at 5mg/ml in SDS sample buffer. Use 5µl (25µg) per lane for Western blotting of tricine gels (13% acrylamide) or 15% Laemmli gels.

Target Details

Target:	Profilin (PFN)
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Target Details

Alternative Name: Profilin ([PFN Products](#))

Background: Profilin (PFN1) is a ubiquitous small (12-15 kDa) phosphoinositide and poly-L-proline binding protein that plays a role in signal transduction pathways and actin filament dynamics. There are two mammalian profilins with similar biochemical properties. Whereas profilin I appears to be highly expressed in most tissues except for skeletal muscle, profilin II is predominantly expressed in brain and at lower levels also in skeletal muscle, uterus and kidney. Profilin is a mainly cytosolic protein with higher concentrations in dynamic membrane areas like the leading edge and ruffling membranes. Profilin binding to PIP2 interferes with PIP2 hydrolysis by soluble phospholipase C-gamma, an inhibition that can be overcome by tyrosine phosphorylation of PLC-gamma. Besides actin monomer sequestration and stimulation of actin nucleotide exchange, profilin can also promote cellular actin filament growth. Profilin is involved in the actin dependent intracellular motility of cytopathogenic bacteria, the regulation of cell adhesion and possibly also in linking the actin cytoskeleton and endocytosis. Profilin has been found to associate with defined complexes containing proteins such as Arp2/3 or the Rho/Rac pathways constituents ROCK-II and HEM2/NAP1. Defects in PFN1 are the cause of amyotrophic lateral sclerosis 18 (ALS18).

UniProt: [P07737](#)

Application Details

Application Notes: Use 5 µL (25 µg) per lane for Western blotting of tricine gels (13 % acrylamide) or 15 % Laemmli gels.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: In PBS containing 1 mg/mL BSA and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Handling

Long Term Storage: -20°C

Stable for at least 1 year after receipt when stored at -20°C.

Expiry Date: 12 months