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Product datasheet for TA326963

Profilin 1 (PFN1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human PFN1
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	profilin 1
Database Link:	NP_005013 Entrez Gene 18643 MouseEntrez Gene 64303 RatEntrez Gene 710753 MonkeyEntrez Gene 5216 Human P07737

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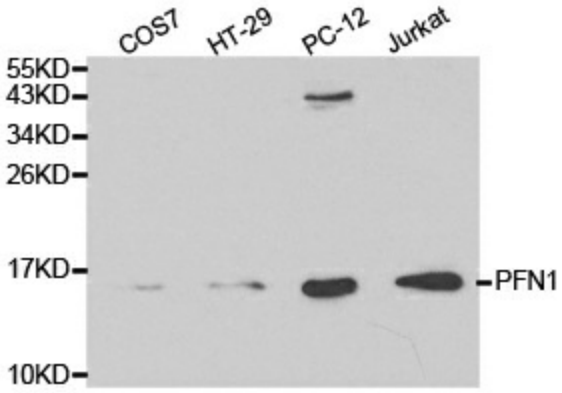
Background: The dynamic polymerization and depolymerization of actin filaments, a process governed by external and internal signaling events, is vital for cell motility (immune cell function, migration, invasion, metastasis, angiogenesis), cell division and adhesion. Among the many regulators of actin dynamics are profilins. Profilins are conserved actin binding proteins that affect the rate of actin polymerization by binding actin monomers and promoting the exchange of ADP for ATP . Profilins bind to proteins involved in the regulation of actin dynamics including palladin, dynamin-1, VASP and N-WASP. In mice, knockout of the ubiquitously expressed profilin-1 indicates that the protein is essential for embryonic development. Profilin-2 is primarily expressed in brain and functions in the regulation of neurite outgrowth , membrane trafficking and endocytosis. The recently cloned profilin-3 is expressed in kidney and testes.

Synonyms: ALS18

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Regulation of actin cytoskeleton

Product images:



Western blot analysis of extracts of various cell lines, using PFN1 antibody.