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# PFN1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:**15kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human PFN1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

ALS18; PFN1

**Catalog #:**A1164

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**5216

**Isotype:**IgG

**Swiss Prot:**P07737

**Purity:**Affinity purification

For research use only.

**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 (reviewed in 1). Profilins bind to proteins involved in the regulation of actin dynamics including palladin (2), dynamin-1 (3), VASP (4) and N-WASP (5). In mice, knockout of the ubiquitously expressed profilin-1 indicates that the protein is essential for embryonic development (6). Profilin-2 is primarily expressed in brain and functions in the regulation of neurite outgrowth (7), membrane trafficking and endocytosis (3). The recently cloned profilin-3 is expressed in kidney and testes (8).

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