

Product datasheet for **AP06001PU-N**

Actin (ACTA1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human Actin- α 1.
Specificity:	This antibody detects endogenous levels of Actin- α 1 protein (region surrounding Asp3).
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~45 kDa
Gene Name:	actin, alpha 1, skeletal muscle
Database Link:	Entrez Gene 58 Human P68133



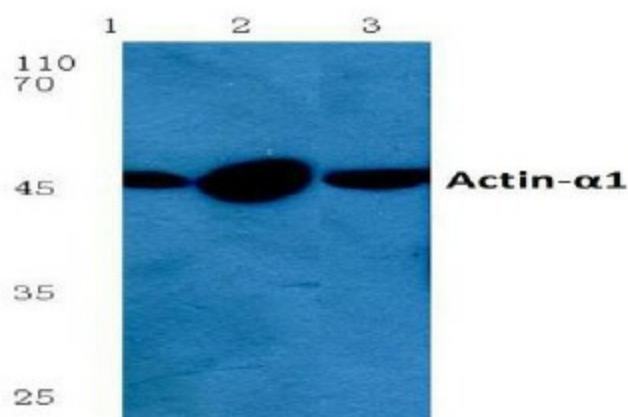
Background:

All eukaryotic cells express actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of actin are present in mammalian tissues and fall into three classes. α actin expression is limited to various types of muscle, whereas β and γ are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the actin cytoskeleton. Rho controls the assembly of actin stress fibers and focal adhesion, Rac regulates actin filament accumulation at the plasma membrane and Cdc42 stimulates formation of filopodia.

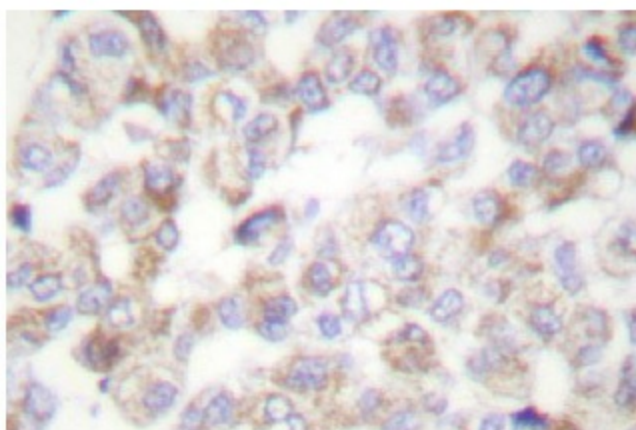
Synonyms:

ACTA; Alpha-actin-1; ASMA; CFTD; CFTD1; CFTDM; MPFD; NEM1; NEM2; NEM3

Product images:



Western blot analysis using alpha skeletal muscle Actin / ACTA1 antibody at 1/500 dilution. Lane 1 : A549 whole cell lysate. Lane 2: SP2/0 whole cell lysate. Lane 3: Rat kidney tissue lysate.



Immunohistochemistry (IHC) analysis using alpha skeletal muscle Actin / ACTA1 antibody in paraffin-embedded human muscle tissue.