

Anti-ACTN1/2/3/4 Antibody

Catalog # AP53792

Product Information

Application	WB, IHC
Primary Accession	P12814
Other Accession	P35609 , Q08043 , Q43707
Reactivity	Human, Mouse, Rat, Zebrafish, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103058

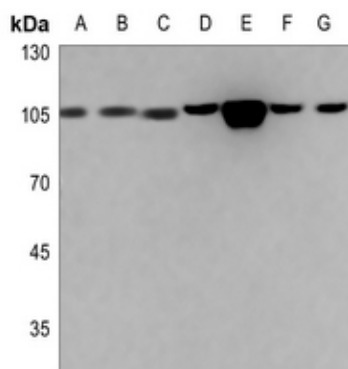
Additional Information

Gene ID	87
Other Names	ACTN1; Alpha-actinin-1; Alpha-actinin cytoskeletal isoform; F-actin cross-linking protein; Non-muscle alpha-actinin-1; ACTN2; Alpha-actinin-2; Alpha-actinin skeletal muscle isoform 2; F-actin cross-linking protein; ACTN3; Alpha-actinin-3; Alpha-actinin skeletal muscle isoform 3; F-actin cross-linking protein; ACTN4; Alpha-actinin-4; F-actin cross-linking protein; Non-muscle alpha-actinin 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ACTN1/2/3/4. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

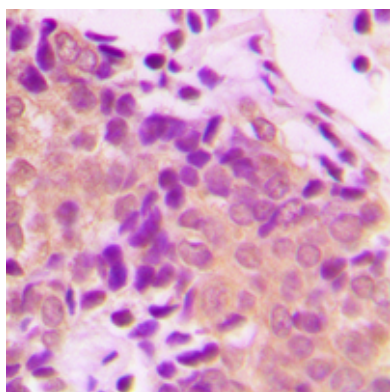
Protein Information

Name	ACTN1
Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. Association with IGSF8 regulates the immune synapse formation and is required for efficient T- cell activation (PubMed: 22689882).
Cellular Location	Cytoplasm, cytoskeleton. Cytoplasm, myofibril, sarcomere, Z line. Cell membrane. Cell junction {ECO:0000250 UniProtKB:Q9Z1P2}. Cell projection, ruffle {ECO:0000250 UniProtKB:Q7TPR4}. Note=Colocalizes with MYO22 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures {ECO:0000250 UniProtKB:Q7TPR4}

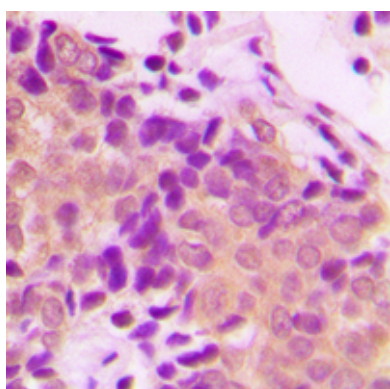
Images



Western blot analysis of ACTN1/2/3/4 expression in A375 (A), U2OS (B), DLD (C), mouse heart (D), mouse muscle (E), rat heart (F), rat muscle (G) whole cell lysates. (Predicted band size: 103; 104 kD; Observed band size: 105 kD)



Immunohistochemical analysis of ACTN1/2/3/4 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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