

Anti-ACTN1/2/3/4 Antibody
Catalog # AP53792**Specification**

Anti-ACTN1/2/3/4 Antibody - Product Information

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

Anti-ACTN1/2/3/4 Antibody - 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~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-ACTN1/2/3/4 Antibody - 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

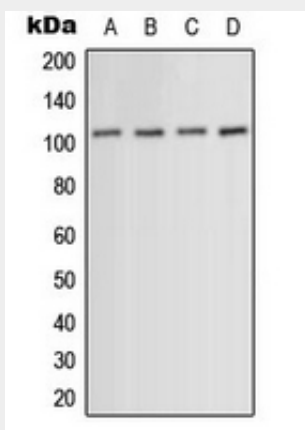
Cytoplasm, cytoskeleton. Cytoplasm, myofibril, sarcomere, Z line. Cell membrane. Cell junction {ECO:0000250|UniProtKB:Q9Z1P2}. Cell projection, ruffle {ECO:0000250|UniProtKB:Q7TPR4}. Note=Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures {ECO:0000250|UniProtKB:Q7TPR4}

Anti-ACTN1/2/3/4 Antibody - Protocols

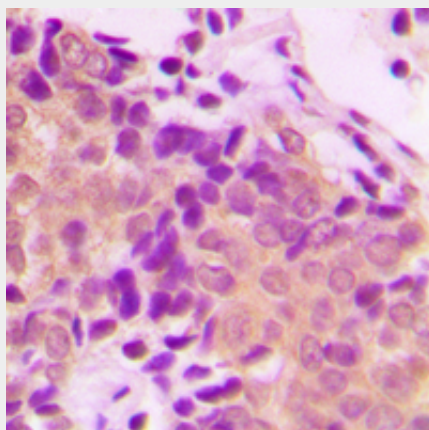
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ACTN1/2/3/4 Antibody - Images



Western blot analysis of ACTN1/2/3/4 expression in HeLa (A), HuvEc (B), mouse muscle (C), PC12 (D) whole cell lysates.



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.

Anti-ACTN1/2/3/4 Antibody - Background

Rabbit polyclonal antibody to ACTN1/2/3/4