

Actinin- α 1/2/3/4 Rabbit pAb

CatalogNo: YT0101

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 75kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****ELISA 1:20000****IF 1:50-200**

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human ACTN1/2/3/4. AA range: 21-70**Specificity** Actinin- α 1/2/3/4 Polyclonal Antibody detects endogenous levels of Actinin- α 1/2/3/4 protein.

Target Information

Gene name ACTN1/2/3/4

Protein Name Alpha-actinin-1/2/3/4

Organism	Gene ID	UniProt ID
Human	87 ; 88 ; 89 ; 81 ;	P12814 ; P35609 ; Q08043 ; O43707 ;
Mouse	109711 ; 11472 ; 11474 ; 60595 ;	
Rat	81634 ; 63836 ;	Q9Z1P2 ; Q9QXQ0 ;

Cellular Localization

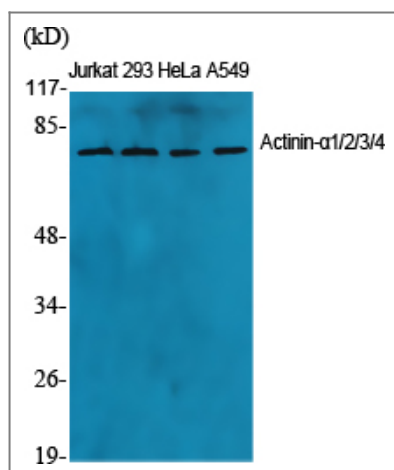
Cytoplasm, cytoskeleton . Cytoplasm, myofibril, sarcomere, Z line . Cell membrane . Cell junction . Cell projection, ruffle . Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures. .

Tissue specificity Colon, Epithelium, Hepatocyte, Neuroblastoma, Placenta, Platelet, Skin, Tumor of tongue,

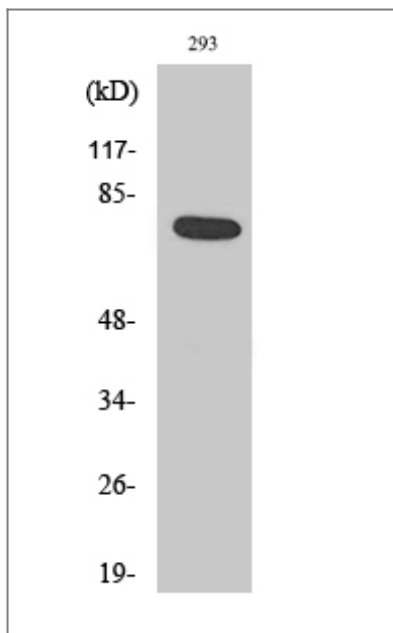
Function

Function: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein., similarity: Belongs to the alpha-actinin family., similarity: Contains 1 actin-binding domain., similarity: Contains 2 CH (calponin-homology) domains., similarity: Contains 2 EF-hand domains., similarity: Contains 4 spectrin repeats., subcellular location: Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle., subunit: Homodimer; antiparallel. Interacts with DDN, MYOZ2, PDLIM2, TTID and LPP.,

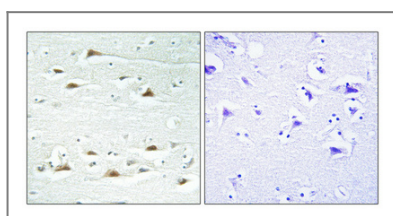
Validation Data



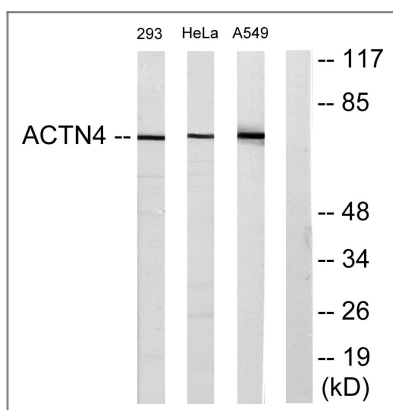
Western Blot analysis of various cells using Actinin- α 1/2/3/4 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of A549 cells using Actinin- α 1/2/3/4 Polyclonal Antibody diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from 293, HeLa, and A549 cells, using ACTN1/2/3/4 Antibody. The lane on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code to access additional product information:
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