



[Go to Product page](#)

Datasheet for ABIN7143827

anti-alpha Actinin 4 antibody (AA 160-440)

4 Images

Overview

Quantity:	100 µg
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	AA 160-440
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Alpha-actinin-4 protein (160-440AA)
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 (ACTN4 Products)
Background:	Background: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein (Probable). Probably involved in vesicular

Target Details

trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (PubMed:15772161). Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (By similarity). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (PubMed:22351778).

Aliases: actinin 4 antibody, Actinin alpha 4 antibody, actinin4 antibody, ACTN 4 antibody, ACTN4 antibody, ACTN4_HUMAN antibody, Alpha-actinin-4 antibody, DKFZp686K23158 antibody, F actin cross linking protein antibody, F-actin cross-linking protein antibody, Focal segmental glomerulosclerosis 1 antibody, FSGS 1 antibody, FSGS antibody, FSGS1 antibody, Non muscle alpha actinin 4 antibody, Non-muscle alpha-actinin 4 antibody

UniProt: [O43707](#)

Pathways: [Proton Transport](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

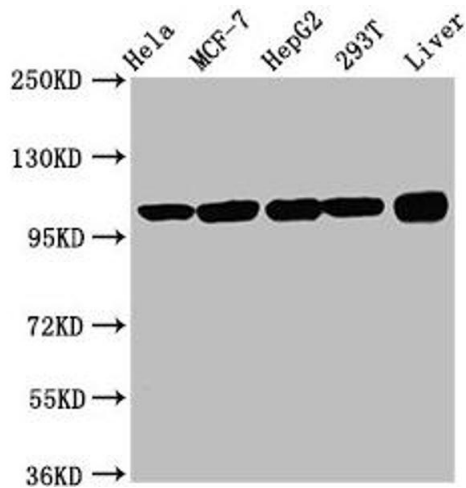
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

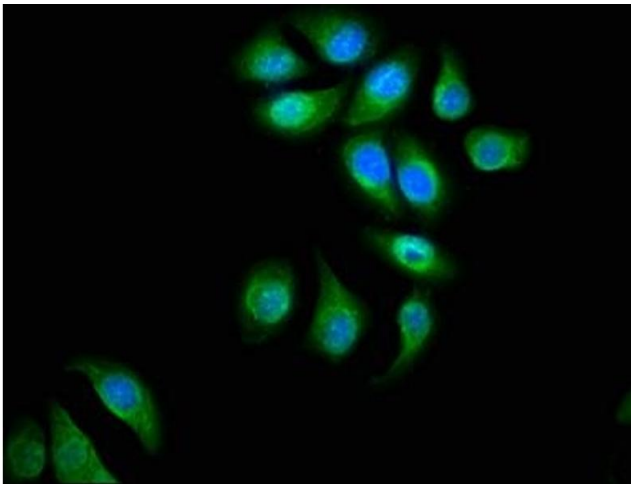
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



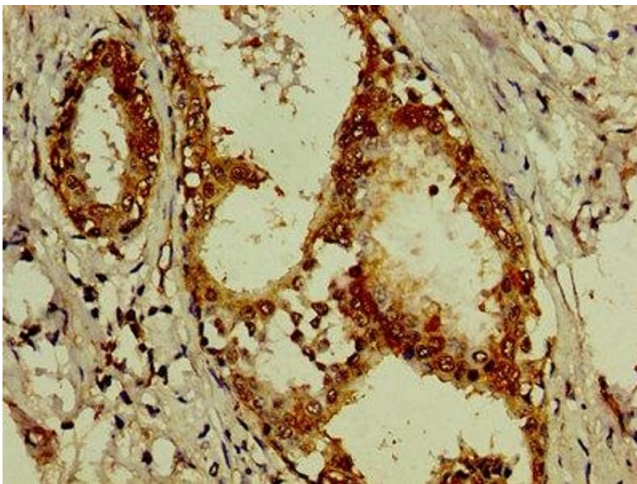
Western Blotting

Image 1. Western Blot Positive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, 293T whole cell lysate, Rat liver tissue All lanes: ACTN4 antibody at 3.3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 105, 80, 60 kDa Observed band size: 105 kDa



Immunofluorescence

Image 2. Immunofluorescence staining of A549 cells with ABIN7143827 at 1:66, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry

Image 3. IHC image of ABIN7143827 diluted at 1:200 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7143827.