

Datasheet for ABIN731498

anti-F-Actin antibody (AA 1-50)

4 Images

14 Publications



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Overview

Quantity:	100 µL
Target:	F-Actin
Binding Specificity:	AA 1-50
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This F-Actin antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human F-actin capping protein alpha subunit
Isotype:	IgG
Cross-Reactivity:	Chicken, Dog, Human, Mouse, Rat
Predicted Reactivity:	Cow, Sheep, Pig
Purification:	Purified by Protein A.

Target Details

Target:	F-Actin
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Target Details

Abstract:	F-Actin Products
Background:	<p>Synonyms: CapZ alpha-1, F-actin-capping protein subunit alpha-1, CAZA1_HUMAN</p> <p>Background: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.</p> <p>F-actin-capping proteins bind in a Ca²⁺-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments.</p> <p>May play a role in the formation of epithelial cell junctions.</p>
Gene ID:	60
UniProt:	P52907

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

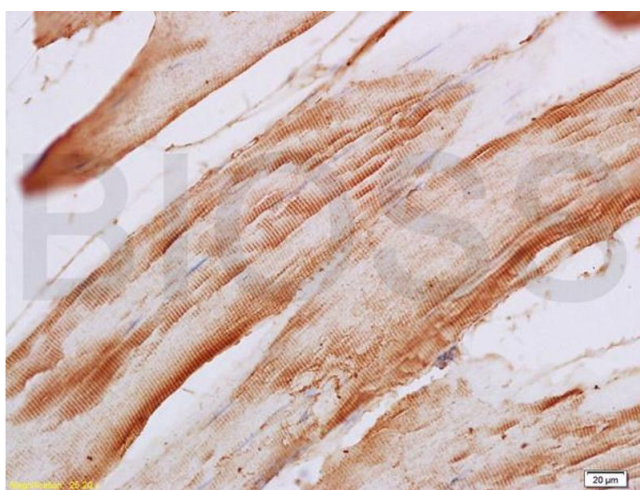
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

- Product cited in: Zhang, Zhao, Yu, Liu, Hao, Zhang, Ge, Min, Shen, Li, Kou, Ma, Li: "Proteome analysis of egg yolk after exposure to zinc oxide nanoparticles." in: **Theriogenology**, Vol. 95, pp. 154-162, (2018) ([PubMed](#)).
- Clark, Garcia Galindo, Patel, Parry, Stoll, Yavorski, Pinkason, Johnson, Walker, Johnson, Sexton, Coppola, Blanck: "The human, F-actin-based cytoskeleton as a mutagen sensor." in: **Cancer cell international**, Vol. 17, pp. 121, (2018) ([PubMed](#)).
- Guo, Liu: "Nogo receptor knockdown and ciliary neurotrophic factor attenuate diabetic retinopathy in streptozotocin-induced diabetic rats." in: **Molecular medicine reports**, Vol. 16, Issue 2, pp. 2030-2036, (2017) ([PubMed](#)).
- Siar, Rahman, Tsujigiwa, Mohamed Om Alblazi, Nagatsuka, Ng: "Invadopodia proteins, cortactin, N-WASP and WIP differentially promote local invasiveness in ameloblastoma." in: **Journal of oral pathology & medicine : official publication of the International Association of Oral Pathologists and the American Academy of Oral Pathology**, Vol. 45, Issue 8, pp. 591-8, (2016) ([PubMed](#)).
- Chen, Chen, Lu, Liu, Jiang, Ma: "Cofilin is correlated with sperm quality and influences sperm fertilizing capacity in humans." in: **Andrology**, Vol. 4, Issue 6, pp. 1064-1072, (2016) ([PubMed](#)).

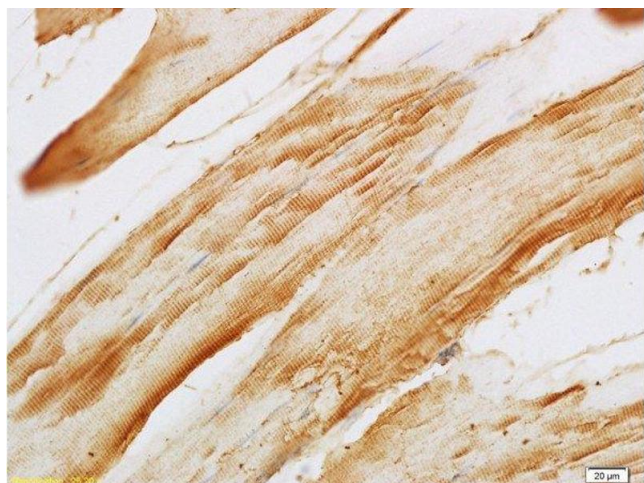
There are more publications referencing this product on: [Product page](#)

Images



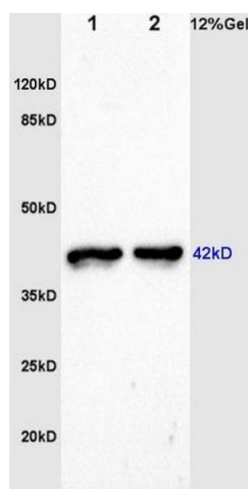
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat skeletal muscle labeled with Anti-F-Actin Polyclonal Antibody, Unconjugated (ABIN731498) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat skeletal muscle labeled with Anti-F-Actin Polyclonal Antibody, Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 3. L1 and L2 rat skeletal muscle lysates probed: : Anti-F-Actin (ABIN731498) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted and observed band size: 42kDa

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN731498.