

Datasheet for ABIN361349

anti-Actin antibody**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Actin (ACTA1)
Reactivity:	Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Preparation of chicken gizzard actin
Clone:	C4
Isotype:	IgG1
Specificity:	Specific for the ~42 kDa actin protein in lysates from skeletal, cardiac, gizzard and aorta tissues. Reacts with all actin isoforms.
Cross-Reactivity:	All Species
Purification:	Ascites fluid

Target Details

Target:	Actin (ACTA1)
Alternative Name:	ACTA1 (ACTA1 Products)

Target Details

Background:	Actin is the most abundant protein found in virtually all eukaryotic cells. It is also one of the most highly-conserved proteins, differing by no more than 20% in species as diverse as algae and humans, making it an excellent choice for use as a loading control. It is the monomeric subunit of microfilaments, one of the three major components of the cytoskeleton, and of thin filaments, which are part of the contractile apparatus in muscle cells. Thus, actin participates in many important cellular functions, including muscle contraction, cell motility, cell division and cytokinesis, vesicle and organelle movement, cell signaling, and the establishment and maintenance of cell junctions and cell shape. Anti-Actin Western blot of rat hippocampal homogenate showing specific immunolabeling of the ~ 42k actin protein.
Molecular Weight:	'42 kDa
Gene ID:	421534
UniProt:	P68139
Pathways:	Caspase Cascade in Apoptosis, Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development

Application Details

Application Notes:	Recommended Dilution: WB:1:5,000 IF: 1:500 IHC: 1:500 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascites fluid + 0.01 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Wheaton, Aten, Queiroz, Sullivan, Oberdick, Hoyt, Obrietan: "Circadian expression and functional characterization of PEA-15 within the mouse suprachiasmatic nucleus." in: The European
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journal of neuroscience, Vol. 47, Issue 7, pp. 845-857, (2019) ([PubMed](#)).

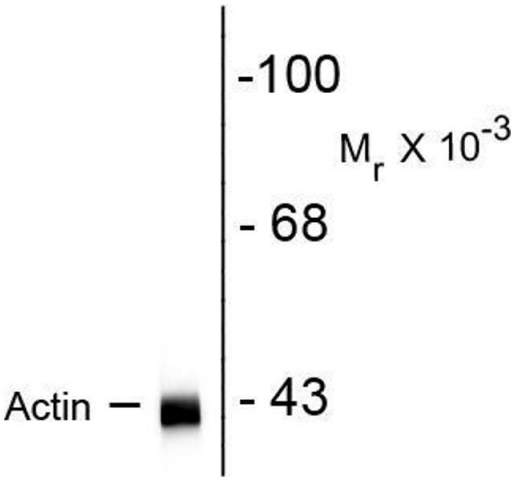
Choi, Horning, Aten, Karelina, Alzate-Correa, Arthur, Hoyt, Obrietan: "Mitogen- and Stress-Activated Protein Kinase 1 Regulates Status Epilepticus-Evoked Cell Death in the Hippocampus." in: **ASN neuro**, Vol. 9, Issue 5, pp. 1759091417726607, (2018) ([PubMed](#)).

Barcus, OLeary, Brockman, Rugowski, Liu, Garcia, Yu, Keely, Eliceiri, Schuler: "Elevated collagen-I augments tumor progressive signals, intravasation and metastasis of prolactin-induced estrogen receptor alpha positive mammary tumor cells." in: **Breast cancer research : BCR**, Vol. 19, Issue 1, pp. 9, (2017) ([PubMed](#)).

Ramena, Yin, Yu, Walia, Elble: "CLCA2 Interactor EVA1 Is Required for Mammary Epithelial Cell Differentiation." in: **PLoS ONE**, Vol. 11, Issue 3, pp. e0147489, (2016) ([PubMed](#)).

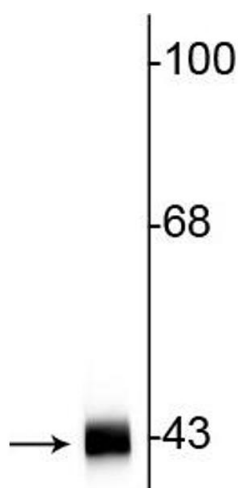
Barcus, Holt, Keely, Eliceiri, Schuler: "Dense collagen-I matrices enhance pro-tumorigenic estrogen-prolactin crosstalk in MCF-7 and T47D breast cancer cells." in: **PLoS ONE**, Vol. 10, Issue 1, pp. e0116891, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blots of rat hippocampal homogenate showing specific immunolabeling of the ~ 42k actin protein.



Western Blotting

Image 2. Western blot of rat hippocampal lysate showing specific immunolabeling of the ~42 kDa actin protein.