

Anti-Actin Antibody

Catalog # ABO12749

Product Information

Application	WB, IHC-P
Primary Accession	P68133
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Actin, alpha skeletal muscle(ACTA1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	58
Other Names	Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA
Calculated MW	42051
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm, cytoskeleton.
Source	Eukaryota
Protein Name	Actin, alpha skeletal muscle
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Actin (359-377aa ITKQEYDEAGPSIVHRKCF), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

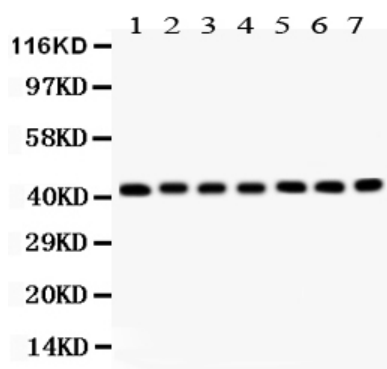
Protein Information

Name	ACTA1
Synonyms	ACTA
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Cellular Location	Cytoplasm, cytoskeleton.

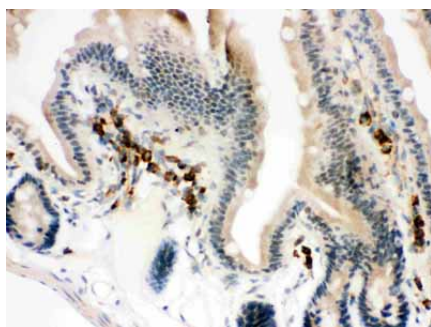
Background

Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90% sequence homology, but each isoform has a unique NH2-terminal sequence. The isoforms are comprised of three alpha-actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues.

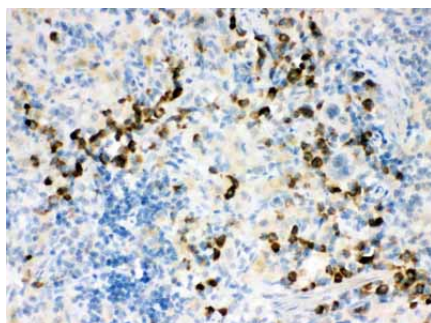
Images



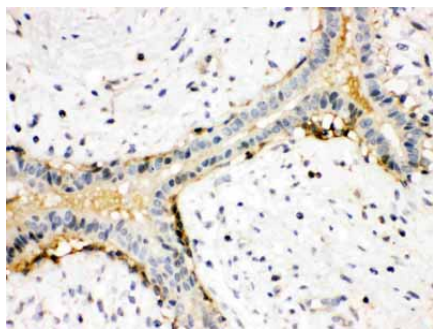
Anti- ACTIN antibody, ABO12749, Western blotting
All lanes: Anti ACTIN (ABO12749) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Lane 3: Mouse Spleen Tissue Lysate at 50ug
Lane 4: HELA Whole Cell Lysate at 40ug
Lane 5: COLO320 Whole Cell Lysate at 40ug
Lane 6: SMMC Whole Cell Lysate at 40ug
Lane 7: A549 Whole Cell Lysate at 40ug
Predicted bind size: 42KD
Observed bind size: 42KD



Anti- ACTIN antibody, ABO12749, IHC(P)
IHC(P): Mouse Intestine Tissue



Anti- ACTIN antibody, ABO12749, IHC(P)
IHC(P): Rat Spleen Tissue



Anti- ACTIN antibody, ABO12749, IHC(P)IHC(P): Human Mammary Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.