10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Actin Antibody (Monoclonal, AC-40)

Catalog # ABO10397

Specification

Anti-Actin Antibody (Monoclonal, AC-40) - Product Information

Application	**IHC**
Primary Accession	P68133
Host	**Mouse**
Isotype	**Mouse IgG2a**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Mouse IgG monoclonal antibody for Actin detection. Tested with WB, IHC-F in Human;mouse;rat;chicken. No cross reactivity with other proteins.

Reconstitution
Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Actin Antibody (Monoclonal, AC-40) - Additional Information

Gene ID 58

Other Names
Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA

Calculated MW
42051 MW KDa

Application Details
Immunohistochemistry(Frozen Section), 4 µg/ml, Human, chicken, mouse, rat, -
Western blot, 2 µg/ml, Human, chicken, mouse, rat

Subcellular Localization
Cytoplasm, cytoskeleton.

Protein Name
Actin, alpha skeletal muscle|Actin, alpha cardiac muscle 1|Actin, aortic smooth muscle|Actin, cytoplasmic 1|Actin, cytoplasmic 2|Actin, gamma-enteric smooth muscle

Contents
Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen
Synthetic actin C-terminal peptideSer-Gly-Pro-Ser-Ile-Val-His-Arg-Lys-Cys-Phe,attached to a Multiple Antigen Peptide(MAP) backbone.

Purification
Ascites

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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.

Anti-Actin Antibody (Monoclonal, AC-40) - 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.

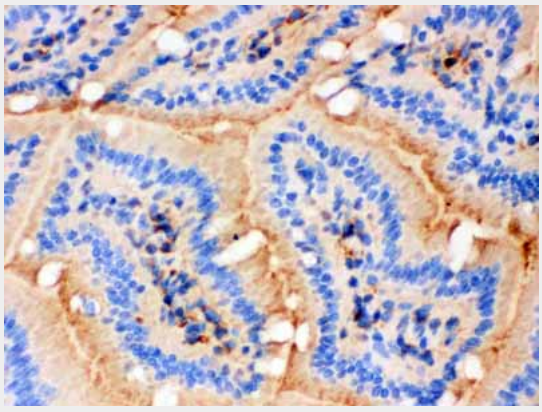
Cellular Location
Cytoplasm, cytoskeleton.

Anti-Actin Antibody (Monoclonal, AC-40) - Protocols

Provided below are standard protocols that you may find useful for product applications.

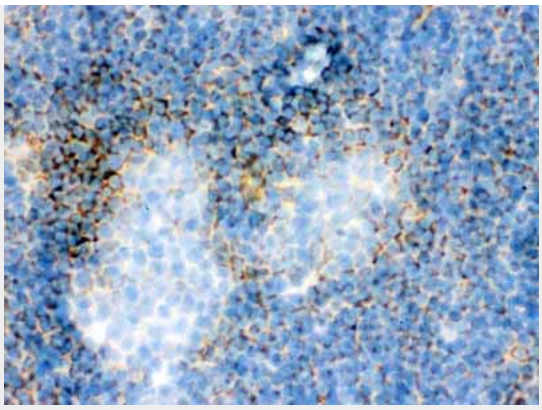
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Actin Antibody (Monoclonal, AC-40) - Images

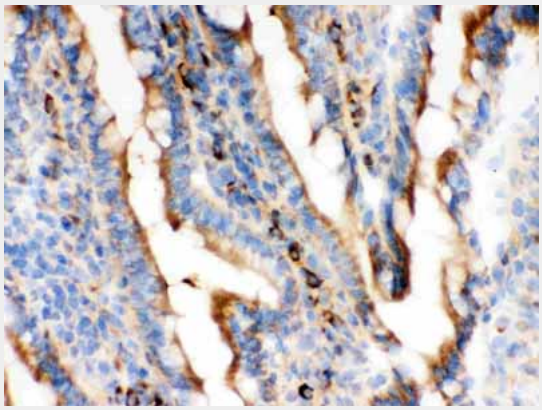


Anti- Actin antibody, ABO10397, IHC(F)IHC(F): Mouse Intestine Tissue

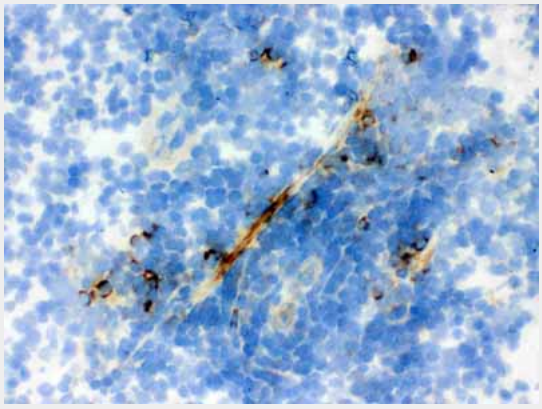
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



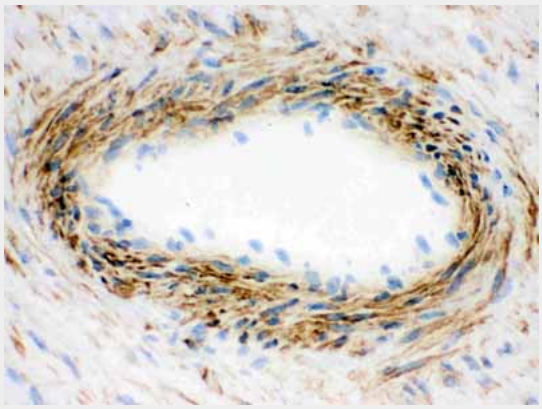
Anti- Actin antibody, ABO10397, IHC(F)IHC(F): Mouse Spleen Tissue



Anti- Actin antibody, ABO10397, IHC(F)IHC(F): Rat Intestine Tissue



Anti- Actin antibody, ABO10397, IHC(F)IHC(F): Rat Spleen Tissue



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti- Actin antibody, ABO10397, IHC(F)IHC(F): Human Placenta Tissue

Anti-Actin Antibody (Monoclonal, AC-40) - 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.