

### 39-1001: Anti-Actin Monoclonal Antibody (Clone: AC-40)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	AC-40
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	ACTA1
<b>Gene ID :</b>	58
<b>Uniprot ID :</b>	P68133
<b>Alternative Name :</b>	Actin, alpha skeletal muscle; Alpha-actin-1; ACTA1; ACTA
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	Synthetic actin C-terminal peptide Ser-Gly-Pro-Ser-Ile-Val-His-Arg-Lys-Cys-Phe, attached to a Multiple Antigen Peptide (MAP) backbone.

### Description

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 NH<sub>2</sub>-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.

### Product Info

<b>Amount :</b>	100 µg/vial
<b>Purification :</b>	Ascites
<b>Content :</b>	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN <sub>3</sub> as preservative. Reconstitute : Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
<b>Storage condition :</b>	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.

### Application Note

Immunohistochemistry(Frozen Section) : 4µg/ml

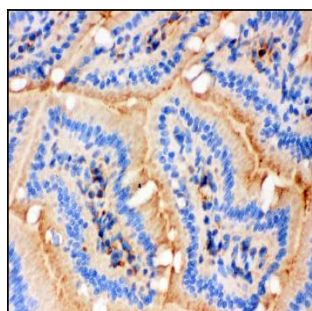


Figure 1: Anti-Actin antibody(39-1001). IHC(F): Mouse Intestine Tissue.

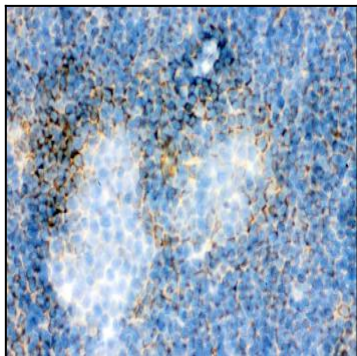


Figure 2: Anti-Actin antibody(39-1001). IHC(F): Mouse Spleen Tissue.

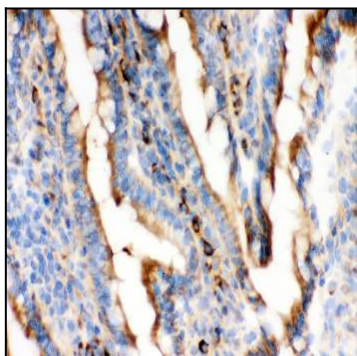


Figure 3: Anti-Actin antibody(39-1001). IHC(F): Rat Intestine Tissue.

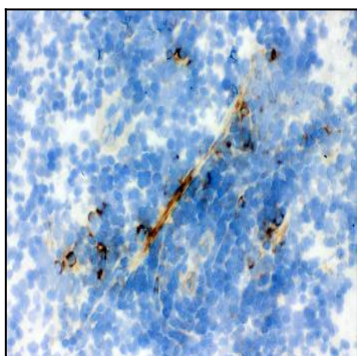


Figure 4: Anti-Actin antibody(39-1001). IHC(F): Rat Spleen Tissue.

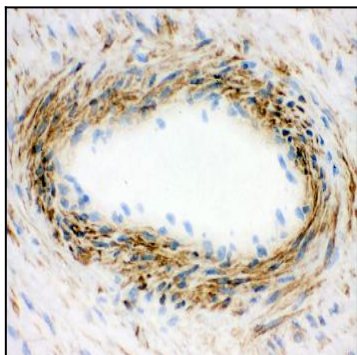


Figure 5: Anti-Actin antibody(39-1001). IHC(F): Human Placenta Tissue.