

## Basic Information

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Product Name       | Anti-ACTA1 Antibody                                                                                                                                                                                                                                                                                                      |  |
| Gene Name          | ACTA1                                                                                                                                                                                                                                                                                                                    |  |
| Source             | Rabbit                                                                                                                                                                                                                                                                                                                   |  |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                      |  |
| Species Reactivity | human, mouse, rat                                                                                                                                                                                                                                                                                                        |  |
| Tested Application | WB, IHC                                                                                                                                                                                                                                                                                                                  |  |
| Contents           | 500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                             |  |
| 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.                                                                                                                                                      |  |
| concentration      | 500 ug/ml                                                                                                                                                                                                                                                                                                                |  |
| Purification       | Affinity-chromatography                                                                                                                                                                                                                                                                                                  |  |
| Observed MW        | 42KD                                                                                                                                                                                                                                                                                                                     |  |
| Dilution Ratios    | Western blot(WB): 1:500-2000<br>Immunohistochemistry in paraffin section (IHC): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |  |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

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.

## Reference

Anti-ACTA1 Antibody被引用在11文献中。

## Selected Validation Data

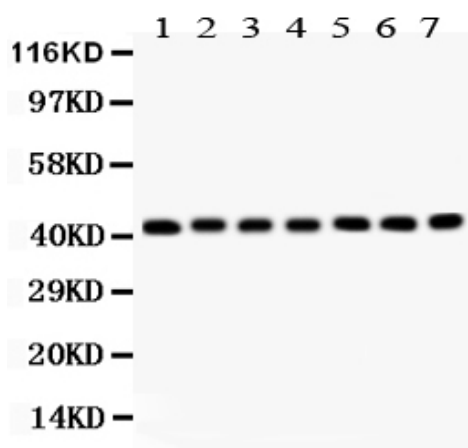


Figure 1. Western blot analysis of Anti-Actin antibody (BA0410). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat liver tissue lysates, Lane 2: Rat kidney tissue lysates, Lane 3: Mouse spleen tissue lysates, Lane 4: HELA whole cell lysates, Lane 5: COLO320 whole cell lysates, Lane 6: SMMC whole cell lysates, Lane 7: A549 whole cell lysates, Use rabbit Anti-Actin 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for Actin at approximately 42KD. The expected band size for Actin is at 42KD.

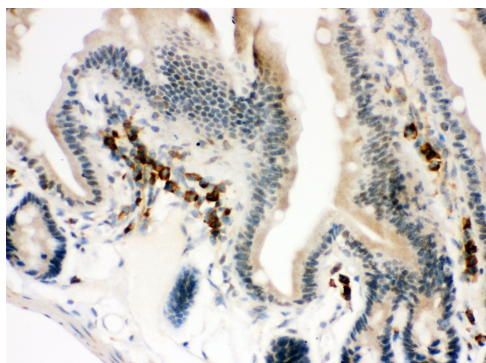


Figure 2. IHC analysis using Anti-Actin antibody (BA0410) detected in paraffin-embedded section of mouse intestine tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.