

-actin

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:5000 - 1:10000 IHC 1:50- 1:100 IF 1:50- 1:200

Calculated MW: 42kDa

Observed MW: Refer to Figures

Immunogen:

Fusion protein of human -actin

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

h

Synonym:

ACTB;PS1TP5BP1 ;beta-actin; -actin

Catalog #: AC004

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID: 60

Isotype: IgG

Swiss Prot: P60709

Purity: Affinity purification

For research use only.

Background:

Beta Actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta Actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. This antibody was generated by full length beta actin protein and can cross-react with other actins.

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