

## -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:**

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**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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