

## Beta Actin Monoclonal antibody

**Cat:**B31018T

**Company:** HaoKebio

**Uniprot ID:**P60709

**Applications:** IHC:1:50-1:250

**Organism:**Mouse

IHC-Polymer:1:200-1:1000

**Species reactivity:**Human Mouse Rat

IHC-TSA:1:250-1:1200

**Molecular Weight Calculation:** 375 aa, 42 kDa

WB:1:2500-1:25000

**Observed Molecular Weight:** 42 kDa

### 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. However, the 37-40 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody can recognize all the actins.

### Synonyms:

ACTB, Actin, beta actin,  $\beta$  actin, Actin cytoplasmic 1

### Immunogen:

Recombinant protein

### Isotype:

IgM

### Subcellular location:

Cytoplasm

### Purity:

Affinity purification

### Form:

Liquid

### Storage Buffer:

PBS with 0.02% sodium azide, 100  $\mu$ g/ml BSA and 50% glycerol.

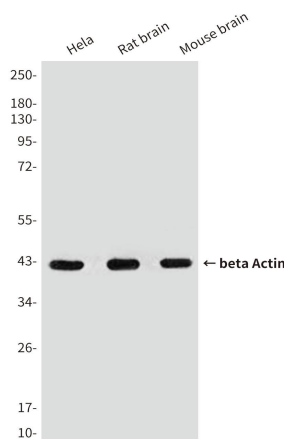
### Storage:

Store at -20 °C for one year.

### Experimental procedure:

Antigen retrieval: Citrate buffer (pH 9.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

### Images:



Dilution of 1:25000 incubated at room temperature for 1.5 hours.

### Source of Reagents:

发表[中文论文]请标注:Beta Actin(B31018T)由杭州浩克生物技术有限公司提供;

发表[英文论文]请标注:Beta Actin(B31018T) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.