

beta-Actin Recombinant antibody

Cat: B02002R

Company: HaoKebio

Uniprot ID: P60709

Applications: IHC:1:1000-1:4000

Organism: Rabbit

IHC-Polymer:1:4000-1:16000

Species reactivity: Human Mouse Rat

IHC-TSA:1:5000-1:20000

IF:1:50-1:200

WB:1:5000-1:50000

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, 31, 15 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody was generated against N-terminal region of human beta actin protein and can cross-react with other actins.

Protein full name:

actin, beta

Synonyms:

ACTB, Actin, beta actin, β actin, 4H1

Immunogen:

Recombinant protein

Isotype:

IgG

Subcellular location:

Cytoskeleton

Purity:

Affinity purification

Form:

Liquid

Storage Buffer:

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

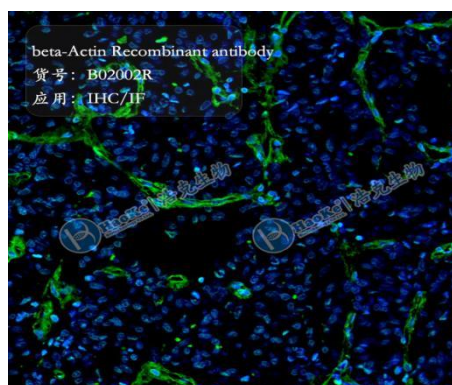
Storage:

Store at -20 $^{\circ}$ C for one year.

Experimental procedure:

Antigen retrieval: Citrate buffer (pH 6.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4 $^{\circ}$ C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

Images:



Sample: Mouse tumor, 4% PFA 12-24h

Source of Reagents:

发表[中文论文]请标注:beta-Actin(B02002R)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(B02002R) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.

