

For Research Use Only

Beta Actin Monoclonal antibody

Catalog Number: 60008-2-Ig **32 Publications**



Basic Information

Catalog Number:

60008-2-Ig

Size:

500 µg/ml

Source:

Mouse

Isotype:

IgM

Immunogen Catalog Number:

AG0297

GenBank Accession Number:

BC002409

GeneID (NCBI):

60

UNIPROT ID:

P60709

Full Name:

actin, beta

Calculated MW:

375 aa, 42 kDa

Observed MW:

45 kDa

Purification Method:

Caprylic Acid/Ammonium Sulfate
Precipitation

CloneNo.:

7A9H3

Applications

Tested Applications:

ELISA

Cited Applications:

WB, IP, IF

Species Specificity:

human

Cited Species:

human, rat, mouse, bovine

Background Information

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 can recognize all of actins.

Notable Publications

Author	Pubmed ID	Journal	Application
Kui Xiao	34714841	PLoS One	WB
Hao Wang	34745126	Front Immunol	WB
Lu Deng	34888227	Front Oncol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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Selected Validation Data