

Beta Actin Monoclonal antibody

Catalog Number: 60008-2-Ig

32 Publications

Basic Information

Catalog Number: 60008-2-Ig	GenBank Accession Number: BC002409	Purification Method: Caprylic Acid/Ammonium Sulfate Precipitation
Size: 150ul , Concentration: 500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 60	CloneNo.: 7A9H3
Source: Mouse	Full Name: actin, beta	
Isotype: IgM	Calculated MW: 375 aa, 42 kDa	
Immunogen Catalog Number: AG0297	Observed MW: 45 kDa	

Applications

Tested Applications:
ELISA

Cited Applications:
IF, IP, WB

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

*** 20ul sizes contain 0.1% BSA

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