

CoraLite488-conjugated beta Actin Monoclonal ANTIBODY

Catalog Number: CL488-60008

Basic Information

Catalog Number: CL488-60008	GenBank Accession Number: BC002409	Recommended Dilutions: IF 1:50-1:500
Size: 100 µg/ 100 µl	GeneID (NCBI): 60	Excitation/Emission maxima wavelengths: 488 nm/515 nm
Source: Mouse	Full Name: actin, beta	
Isotype: IgM	Calculated MW: 375aa, 42 kDa	
Purification Method: Caprylic acid/ammonium sulfate precipitation	Observed MW:	
Immunogen Catalog Number: AG0297		

Applications

Tested Applications: IF, ELISA	Positive Controls: IF : HepG2 cells;
Species Specificity: human, mouse, rat, pig, yeast, plant, Zebrafish	

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. However, the 41 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody is conjugated with CL488(Ex/Em 488 nm/515 nm), and can recognize all the actins.

Notable Publications

Author	Pubmed ID	Journal	Application
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Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

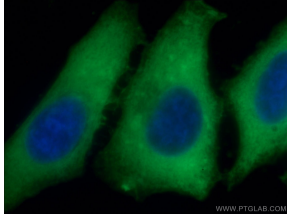
For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL488-60008 (beta Actin antibody) at dilution of 1:100.