

For Research Use Only

HRP-conjugated Beta Actin Monoclonal antibody



Catalog Number: HRP-60008

192 Publications

Basic Information

Catalog Number: HRP-60008	GenBank Accession Number: BC002409	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 60	CloneNo.: 7D2C10
Source: Mouse	Full Name: actin, beta	Recommended Dilutions: WB 1:2000-1:16000
Isotype: IgM	Calculated MW: 375 aa, 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: WB	Positive Controls: WB : HeLa cells,
Cited Applications: ELISA, IF, WB	
Species Specificity: human, mouse, rat, zebrafish, plant	
Cited Species: canine, hamster, human, mouse, rat	

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. This antibody is conjugated with HRP.

Note: Do not add Azium (Sodium Azide or Smite) into the dilution buffer. Azium is the HRP inhibitor which decreases the enzymatic activity of HRP.

Notable Publications

Author	Pubmed ID	Journal	Application
Hong-Tao Li	33093917	Oncol Lett	WB
Lara Kämmerer	32542311	Blood	WB
Jia Zhang	32954626	J Cell Mol Med	WB

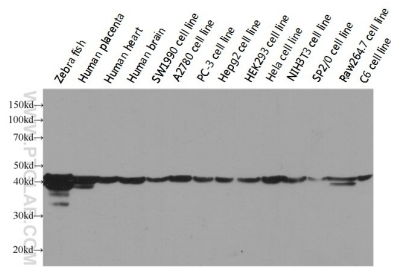
Storage

Storage:
Store at -20°C. Avoid exposure to light. 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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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



Western blot analysis of beta actin in various tissues and cell lines using Proteintech antibody HRP-60008 at a dilution of 1:5000.