

For Research Use Only

# HRP-conjugated Beta Actin Monoclonal antibody



Catalog Number: HRP-60008

202 Publications

## Basic Information

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

## Applications

<b>Tested Applications:</b> WB	<b>Positive Controls:</b> WB : HeLa cells,
<b>Cited Applications:</b> ELISA, IF, WB	
<b>Species Specificity:</b> human, mouse, rat, zebrafish, plant	
<b>Cited Species:</b> 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

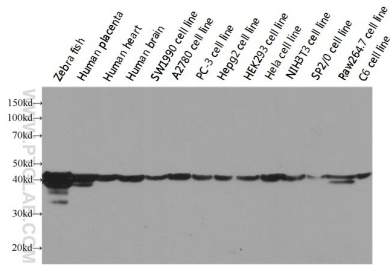
## Storage

**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)  
E: proteintech@ptglab.com  
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## 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.