

# HRP-conjugated beta Actin Monoclonal ANTIBODY

Catalog Number: HRP-60008

40 Publications

## Basic Information

<b>Catalog Number:</b> HRP-60008	<b>GenBank Accession Number:</b> BC002409	<b>Recommended Dilutions:</b> WB 1:2000-1:16000
<b>Size:</b> 100 µg/ 100 µl	<b>GeneID (NCBI):</b> 60	
<b>Source:</b> Mouse	<b>Full Name:</b> actin, beta	
<b>Isotype:</b> IgM	<b>Calculated MW:</b> 375aa, 42 kDa	
<b>Purification Method:</b> Caprylic acid/ammonium sulfate precipitation	<b>Observed MW:</b> 42 kDa	
<b>Immunogen Catalog Number:</b>		

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells;
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat, zebrafish, plant	
<b>Cited Species:</b> Chinese hamster, human, mouse, rat	
<b>Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Zhimin Huang	30374165	Nat Chem Biol	WB
Jiajie Li	30367515	J Oral Pathol Med	WB
Zhipeng Su	30361332	Mbl Cancer Ther	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% Thimerosal, 50% Glycerol, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

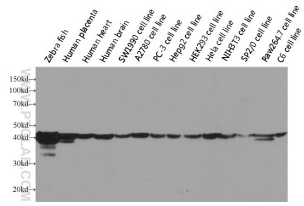
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## Selected Validation Data



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