

For Research Use Only

# Beta Actin Polyclonal antibody

Catalog Number: 10230-1-AP **31 Publications**



## Basic Information

<b>Catalog Number:</b> 10230-1-AP	<b>GenBank Accession Number:</b> BC002409	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 60	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P60709	
<b>Isotype:</b> IgG	<b>Full Name:</b> actin, beta	
<b>Immunogen Catalog Number:</b> AG0297	<b>Calculated MW:</b> 375 aa, 42 kDa	

## Applications

**Tested Applications:**  
ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse, rat, zebrafish

**Cited Species:**  
human, mouse, rat, pig, bovine

## Background Information

Beta Actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. Beta Actin has been widely used as the internal control in bioscience. At least six isoforms are known in mammals. ALPHA-actin was predominant in single cells and BETA-actin was major in the cultured cells. Nonmuscle BETA- and GAMMA-actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells. ALPHA-cardiac and  $\alpha$ -skeletal actin are expressed in striated cardiac and skeletal muscles, respectively; two smooth muscle actins, ALPHA- and GAMMA-actin, are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. This antibody can detect endogenous level of  $\beta$ -Actin and may cross-react with other isoforms of actin family.

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

## Notable Publications

Author	Pubmed ID	Journal	Application
Wu Jing	30335897	J Cell Biochem	WB
Cai Lv	33059651	BMC Urol	WB
Yongmei Guo	29022236	Biol Trace Elem Res	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

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:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data