

## β Actin (PT0519R) PT™ Rabbit mAb

CatalogNo: YM8343 **Recombinant** 

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat, Chicken, Bovine, Hamster, Pig, Cat, Dog, Sheep, Fish, Rabbit, Carp, Bird, Geese, Rainbow trout

**Applications**

- WB, IHC, IF, ELISA

**MW**

- 42kD (Calculated)  
42kD (Observed)

**Isotype**

- IgG, Kappa

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Recommended Dilution Ratios

**IHC 1:2000-1:20000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000**

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0519R

### Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** ACTB

**Protein Name** Actin cytoplasmic 1

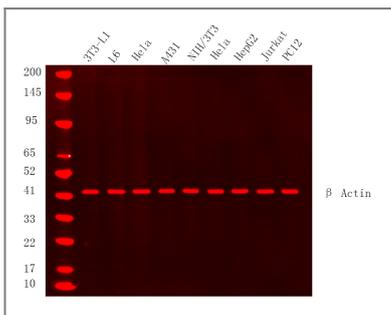
Organism	Gene ID	UniProt ID
Human	<a href="#">60</a> ;	<a href="#">P60709</a> ;
Mouse	<a href="#">11461</a> ;	<a href="#">P60710</a> ;
Rat	<a href="#">81822</a> ;	<a href="#">P60711</a> ;

**Cellular Localization** Cytoplasm

**Tissue specificity** B-cell lymphoma,Brain,Cajal-Retzius cell,Eye,Fetal brain cortex,Foreskin,Hepatocellular car

**Function** Disease:Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.,Function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.,miscellaneous:In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.,similarity:Belongs to the actin family.,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. Component of the BAF complex, which includes at least actin (ACTB), ARID1A, ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57 SMARCC1/BAF155, SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C. In muscle cells, the BAF complex also contains DPF3. Found in a complex with XPO6, Ran, ACTB and PFN1. Interacts with XPO6.,

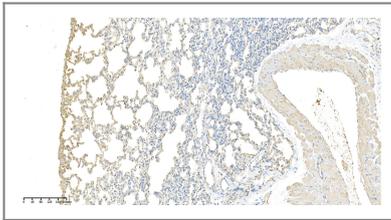
## Validation Data



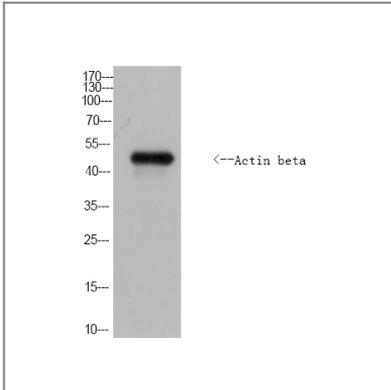
Western Blot analysis using Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti $\beta$  Actin PT™ Rabbit mAb-YM8343 diluted at 1:20000. Secondary : Dylight 800, Goat Anti Rabbit IgG(RS23920 1:10000)



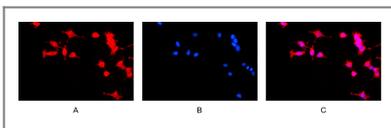
Human colon was stained with anti- $\beta$  Actin rabbit antibody



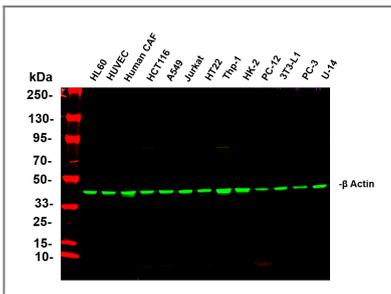
Rat lungs was stained with anti-β Actin Rabbit antibody



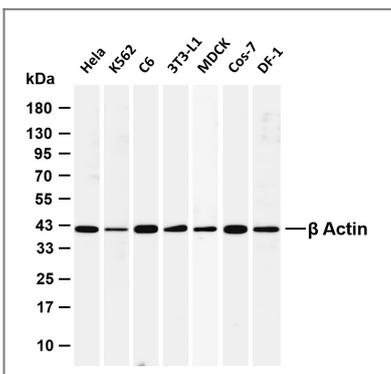
Western Blot analysis of Drosophilidae cells using Actin beta rabbit pAb(Drosophilidae). Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of HEK293. Picture A: β Actin antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Predicted band size: 42kDa Observed band size: 42kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-β Actin (PT0519R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: K562 Lane 3: C6 Lane 4: 3T3-L1 Lane 5: MDCK Lane 6: Cos-7 Lane 7: DF-1 Predicted band size: 42kDa Observed band size: 42kDa

## Contact information

Orders: order@immunoway.com  
Support: tech@immunoway.com  
Telephone: 877-594-3616 (Toll Free), 408-747-0185  
Website: http://www.immunoway.com  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code  
to access additional  
product information:  
**β Actin (PT0519R)**  
**PT™ Rabbit mAb**

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