

**bs-12581R****[ Primary Antibody ]****phospho-beta Actin (Tyr53) Rabbit pAb****Bioss**  
**ANTIBODIES**

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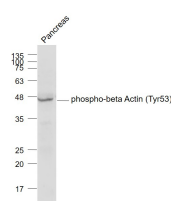
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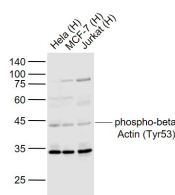
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 60**SWISS:** P60709**Target:** beta Actin (Tyr53)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human beta Actin around the phosphorylation site of Tyr53: DS(p-Y)VG.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

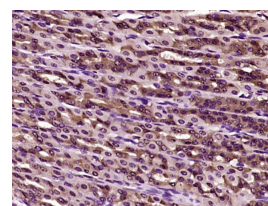
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Actin is a highly conserved protein and an essential component of cell cytoskeleton and plays an important role in cytoplasmic streaming, cell shape determination, cell division, organelle movement and extension growth. Preferentially expressed in young and expanding tissues, floral organ primordia, developing seeds and emerging inflorescence. Antibodies against plant Actin are useful as loading controls for Western Blotting.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Pig, Cow, Chicken)**Predicted MW.:** 42 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

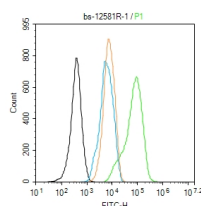
Sample: Pancreas (Mouse) Lysate at 40 ug  
 Primary: Anti- phospho-beta Actin (Tyr53)  
 (bs-12581R) at 1/1000 dilution Secondary:  
 IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
 dilution Predicted band size: 42 kD Observed  
 band size: 42 kD



Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug  
 Lane 2: MCF-7 (Human) Cell Lysate at 30 ug  
 Lane 3: Jurkat (Human) Cell Lysate at 30 ug  
 Primary: Anti- phospho-beta Actin (Tyr53)  
 (bs-12581R) at 1/1000 dilution Secondary:  
 IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
 dilution Predicted band size: 42 kD Observed  
 band size: 42 kD



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (beta Actin (Tyr53)) Polyclonal Antibody, Unconjugated (bs-12581R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: NIH/3T3. Primary Antibody (green line): Rabbit Anti-phospho-beta Actin (Tyr53) antibody (bs-12581R) Dilution: 1μg/10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF488 Dilution: 1μg/test. Protocol The cells were fixed with 4% PFA (10min at room

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temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## — SELECTED CITATIONS —

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- **[IF=4.8]** Bohao Zhang. et al. Role of CORO1A in Regulating Immune Homeostasis of Mammary Glands and Its Contribution to Clinical Mastitis Development in Dairy Cows. BIOMOLECULES. 2025 Jun;15(6):827 WB ;Bovine. 40563467
- **[IF=3.568]** Hongyan Pei. et al. Network pharmacology and molecular docking analysis on the mechanism of Cordyceps militaris polysaccharide regulating immunity through TLR4/TNF- $\alpha$  pathways. J BIOCHEM MOL TOXIC. 2023 Apr;;e23345 WB ;Mouse. 37050869
- **[IF=3.1]** Shuqin Zhao. et al. Melatonin modulated GPX5 and PTGDS expression in Bactrian camel epididymis mainly via receptor MT1. biology of reproduction. 2025 Feb 14:ioaf030. Western blot ;Camel. 39951496
- **[IF=3.1]** Shuqin Zhao. et al. Melatonin modulated GPX5 and PTGDS expression in Bactrian camel epididymis mainly via receptor MT1. BIOLOGY OF REPRODUCTION. 2025 Feb 14:ioaf030. Western blot ;Bactrian camel. 10.1093/biolre/ioaf030