

# HRP Conjugated Anti-beta Actin Antibody [JF53-10] ET1702-67



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Zebrafish, Monkey, Hamster, Arabidopsis thaliana, Rice
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 42 kDa
<b>Clone number:</b>	JF53-10

**Description:** All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of Actin are present in mammalian tissues and fall into three classes.  $\alpha$ -Actin expression is limited to various types of muscle, whereas  $\beta$ -Actin and  $\gamma$ -Actin are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers and focal adhesion. Rac regulates Actin filament accumulation at the plasma membrane. Cdc42 stimulates formation of filopodia.

**Conjugate:** HRP-conjugated

**Immunogen:** Recombinant full length protein of Human beta Actin aa 1-375 / 375.

**Positive control:** HeLa cell lysate, A549 cell lysate, Jurkat cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, mouse brain tissue lysate, rat brain tissue lysate, mouse lung tissue lysate, rat lung tissue lysate, hybrid fish (crucian-carp) brain tissue lysates.

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: P60709 Human | P60710 Mouse | P60711 Rat

**Recommended Dilutions:**

**WB** 1:10,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

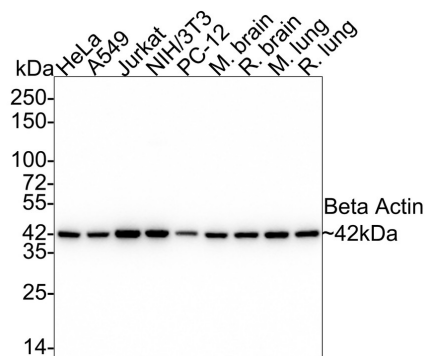
Technical:0086-571-89986345

Service mail:support@huabio.cn

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## Images

**Fig1:** Western blot analysis of beta Actin on different lysates with Rabbit anti-beta Actin antibody (ET1702-67) at 1/10,000 dilution.



Lane 1: HeLa cell lysate  
 Lane 2: A549 cell lysate  
 Lane 3: Jurkat cell lysate  
 Lane 4: NIH/3T3 cell lysate  
 Lane 5: PC-12 cell lysate  
 Lane 6: Mouse brain tissue lysate  
 Lane 7: Rat brain tissue lysate  
 Lane 8: Mouse lung tissue lysate  
 Lane 9: Rat lung tissue lysate

Lysates/proteins at 20 µg/Lane.

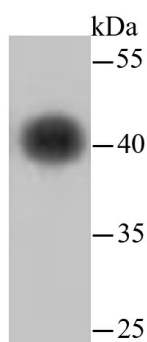
Predicted band size: 42 kDa

Observed band size: 42 kDa

Exposure time: 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1702-67) at 1/10,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours.



**Fig2:** Western blot analysis of beta Actin on hybrid fish (crucian-carp) brain tissue lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET1702-67, 1/500) was used in 5% BSA at room temperature for 2 hours.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Wang H et al. Role of the orexin (hypocretin) system in contextual fear conditioning in rats. *Behav Brain Res* 316:47-53 (2017).
2. Gruber R et al. YAP1 and TAZ Control Pancreatic Cancer Initiation in Mice by Direct Up-regulation of JAK-STAT3 Signaling. *Gastroenterology* 151:526-39 (2016).

