HRP Conjugated Anti-beta Actin Antibody [JF53-10]

ET1702-67

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	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. α-Actin expression is limited to various types of muscle, whereas β-Actin and γ-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: Synthetic peptide within N-terminal residues of β-Actin.

Positive control: HeLa cell lysate, HepG2 cell lysate, MCF7 cell lysate, A431 cell lysate, Jurkat cell lysate, HEK-293 cell lysate, RAW264.7 cell lysate, C2C12 cell lysate, PC-12 cell lysate, Mouse testis tissue lysate, Mouse spleen tissue lysate, Rat testis tissue lysate, Rat spleen tissue lysate.

Subcellular location: Cytoplasm.

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

Recommended Dilutions:

WB	1:20,000-1:50,000

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

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

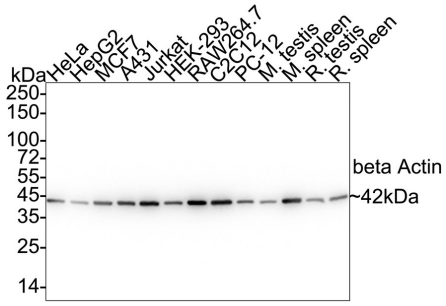

Fig1: Western blot analysis of beta Actin on different lysates with Rabbit anti-beta Actin antibody (ET1702-67) at 1/20,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: HepG2 cell lysate
Lane 3: MCF7 cell lysate
Lane 4: A431 cell lysate
Lane 5: Jurkat cell lysate
Lane 6: HEK-293 cell lysate
Lane 7: RAW264.7 cell lysate
Lane 8: C2C12 cell lysate
Lane 9: PC-12 cell lysate
Lane 10: Mouse testis tissue lysate
Lane 11: Mouse spleen tissue lysate
Lane 12: Rat testis tissue lysate
Lane 13: Rat spleen tissue lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 42 kDa
Observed band size: 42 kDa

Exposure time: 10 seconds; ECL: K1801;

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 1/20,000 dilution was used in 5% NFDM/TBST 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).