

HRP Conjugated Anti-Actin Antibody [JJ09-29]

HA721186



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	JJ09-29

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 Human Actin aa 45-80 / 377.

Positive control: Hela cell lysate, A431 cell lysate, Jurkat cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, mouse brain tissue lysate.

Subcellular location: Cytoplasm, Cytoskeleton.

Database links: SwissProt: P68133 Human | P68134 Mouse | P68136 Rat

Recommended Dilutions:

WB 1:5,000

Storage Buffer: PBS (pH7.4), 0.1% 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.

Hangzhou Huan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

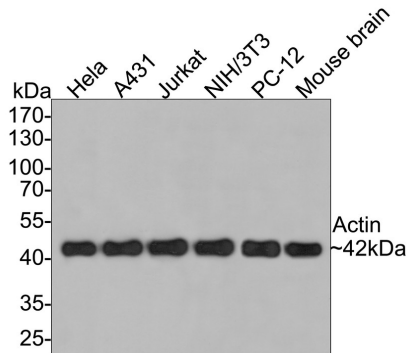


Fig1: Western blot analysis of Actin on different lysates with Rabbit anti-Actin antibody (HA721186) at 1/5,000 dilution.

Lane 1: Hela cell lysate (10 µg/Lane)

Lane 2: A431 cell lysate (10 µg/Lane)

Lane 3: Jurkat cell lysate (10 µg/Lane)

Lane 4: NIH/3T3 cell lysate (10 µg/Lane)

Lane 5: PC-12 cell lysate (10 µg/Lane)

Lane 6: Mouse brain tissue lysate (20 µg/Lane)

Predicted band size: 42 kDa

Observed band size: 42 kDa

Exposure time: 30 seconds;

10% 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 (HA721186) at 1/5,000 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. Moilanen AM et al. WDR12, a Member of Nucleolar PeBoW-Complex, Is Up-Regulated in Failing Hearts and Causes Deterioration of Cardiac Function. PLoS One 10:e0124907 (2015).
2. Rafatian N et al. Cardiac macrophages and apoptosis after myocardial infarction: effects of central MR blockade. Am J Physiol Regul Integr Comp Physiol 307:R879-87 (2014).

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