Actin Recombinant Antibody [JM36-62] - Human IgG1 (Chimeric)

HA721878

Product Type:	Recombinant Chimeric Antibody IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IF-Tissue, IHC-P, IP
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.

Immunogen: Synthetic peptide within Human Actin aa 45-80 / 377.

Positive control: HeLa cell lysate, A431 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, mouse brain tissue lysate, mouse colon tissue lysate, rat brain tissue lysate, rat colon tissue lysate, human colon carcinoma tissue, hybrid fish (crucian-carp) brain tissue lysate, hybrid fish (crucian-carp) kidney tissue lysate, A431, AGS, NIH/3T3, mouse cardiac muscle tissue, mouse smooth muscle tissue.

Subcellular location: Cytoplasm, Cytoskeleton.

Database links: SwissProt: P68133 Human | P68134 Mouse | P68136 Rat
Entrez Gene: 407658 Zebrafish

Recommended Dilutions:

WB	1:5,000
IF-Cell	1:100-1:500
IF-Tissue	1:100-1:500
IHC-P	1:50-1:200

Storage Buffer: PBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

No Images

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).