

Anti-alpha smooth muscle Actin Antibody [SY02-64]

Cat:	YK151671
Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IF-Tissue, IHC-P, FC, mIHC
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	SY02-64
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 N-terminal human alpha smooth muscle Actin.
Positive control:	Saos-2 (Human osteosarcoma cells) cell lysate, A431 (Human epidermoid carcinoma skin squamous cells) cell lysate, NIH/3T3 (Mouse fibroblasts) cell lysate, C2C12 (Mouse myoblasts) cell lysate, Neuro-2a (Mouse brain neuroblastoma cells) cell lysate, Mouse skin tissue lysate, Rat skin tissue lysate.
Subcellular location:	Cytoplasm.
Database links:	SwissProt: P62736 Human P62737 Mouse P62738 Rat
Recommended Dilutions:	
WB: 1:1000-1:5000; IF-cell : 1:2000-1:5000; IF-Tissue: 1:50-1:200; IHC-P 1: 1000-1:5000; mIHC: 1:100-1:500; FC: 1:1000-1:2000	
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide
Storage Instruction:	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
Purity:	Protein A affinity purified.