Anti-alpha smooth muscle Actin Antibody
NH-R-02-64

Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity: Human, Mouse, Rat
Applications: IF-Tissue Clearing
Clone number: SY02-64

Description:	All eukaryoticcells expressActin, which often constitutes as much as 50% of total cellular protein. Actin filaments can formboth 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 leastsix types ofActin 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 ofActin stress fibers and focal adhesion. Rac regulatesActin filament accumulation at the plasma membrane. Cdc42 stimulatesformation of filopodia.
Immunogen:	Synthetic peptide within N-terminal human alpha smooth muscleActin.
Positive control:	Mouse heart tissue、Mouse kidney tissue.
Subcellular location:	Cytoplasm.
Recommended Dilutions:	
IF-Tissue Clearing	1:100
Adaptive Clearing kit	Tissue clearing kit（Hydrophilic）（Cat#:NH-CR-210701）、Enhanced Tissue clearing kit(Cat#:NH-CR-230701)
Storage Buffer:	1*TBS(pH7.4), 0.05% BSA, 40% Glycerol. Preservative:0.05% Sodium Azide.
Storage I nstruction:	Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified

Images

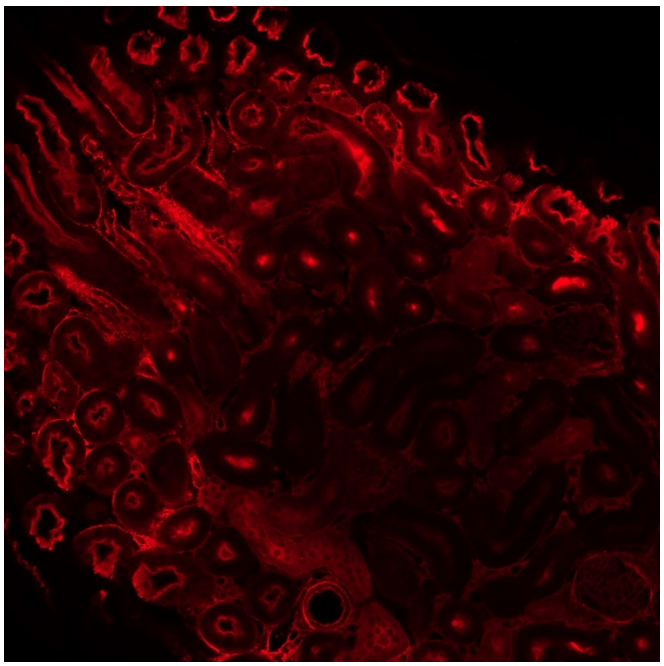

Fig1: Immunofluorescence analysis of fresh mouse kidney tissue labeling alpha smooth muscle Actin (NH-R-02-64) at 1/100 dilution.

The section was treated with Tissue Clearing Kit(Hydrophilic) (Cat#:NH-CR-210701), the tissues were blocked for 2 hours at 4℃, washed with PBS, and then probed with the primary antibody (NH-R-02-64,1/100) overnight at 4℃, washed with PBS. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) was used as the secondary antibody at 1/100 dilution. Image acquisition was performed with Zeiss 980.

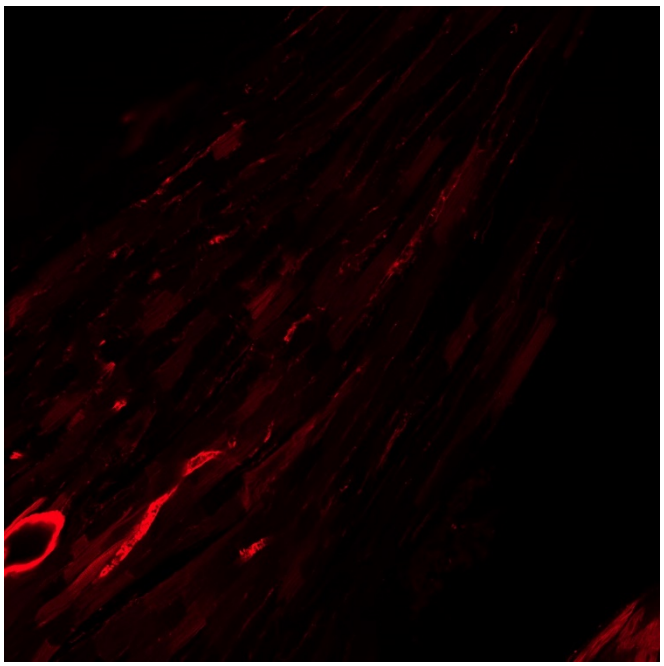

Fig2: Immunofluorescence analysis of fresh mouse heart tissue labeling alpha smooth muscle Actin (NH-R-02-64) at 1/100 dilution.

The section was treated with Tissue Clearing Kit(Hydrophilic) (Cat#:NH-CR-210701), the tissues were blocked for 2 hours at 4℃, washed with PBS, and then probed with the primary antibody (NH-R-02-64,1/100) overnight at 4℃, washed with PBS. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) was used as the secondary antibody at 1/100 dilution. Image acquisition was performed with Zeiss 980.