

α smooth muscle actin Rabbit pAb

CatalogNo: YT5053

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 42kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****ELISA 1:20000****IF 1:50-200**

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from the N-terminal region of human α -SMA. AA range: 84-134**Specificity** α -SMA Polyclonal Antibody detects endogenous levels of α -SMA protein.

Target Information

Gene name ACTA2

Protein Name Actin, aortic smooth muscle

Organism	Gene ID	UniProt ID
Human	59 ;	P62736 ;
Mouse	11475 ;	P62737 ;
Rat	81633 ;	P62738 ;

Cellular Localization Cytoplasm, cytoskeleton.

Tissue specificity Pituitary,Uterus,

Function Disease:Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. They are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.,Function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.,miscellaneous:In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.,similarity:Belongs to the actin family.,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others.,

| Validation Data

| Contact information

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