

Actin, smooth muscle (SMA) (ABT53R) rabbit mAb

Catalog No :	YM7006
Reactivity :	Human; Mouse; (predicted: Rat)
Applications :	IHC;WB; ELISA
Target :	Actin, smooth muscle (SMA)
Fields :	>>Vascular smooth muscle contraction;>>Apelin signaling pathway;>>Relaxin signaling pathway
Gene Name :	ACTA2/ACTG2
Protein Name :	Actin, smooth muscle
Human Swiss Prot No :	P62736/P63267
Immunogen :	Synthesized peptide derived from human Actin, smooth muscle (SMA) AA range:1-100
Specificity :	This antibody detects endogenous levels of Actin, smooth muscle (SMA)
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, Rabbit IgG1, Kappa
Dilution :	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000
Purification :	Recombinant Expression and Affinity purified
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	42kD
Background :	The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and

gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008],

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 actin

SubcellularCytoplasmic

Location :**Expression :**Pituitary,Uterus,

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