

Actin (pan) (Acetyl Lys52/50/51) Rabbit pAb

CatalogNo: YK0130

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, 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 1:1000-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Actin-pan (Acetyl Lys52/50/51)

Specificity This antibody detects endogenous six different actin proteins around acetyl site around: GQkDS. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): GQkDS

Target Information

Gene name ACTC1;ACTA1;ACTA2;ACTB;ACTG1;ACTG2

Protein Name Actin pan (Acetyl Lys52/50/51)

Organism	Gene ID	UniProt ID
Human	70 ; 58 ; 59 ; 60 ; 71 ; 72 ;	P62736 ; P60709 ; P68032 ; P63261 ; P63267 ; P68133 ;
Mouse	11475 ; 11464 ; 11465 ; 11468 ; 11459 ; 11461 ;	
Rat	81633 ;	P62738 ;

Cellular Localization Cytoplasm , cytoskeleton.

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

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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