

Anti-Alpha-Smooth Muscle Actin Antibody (Monoclonal, 1A4)

Catalog # ABO10489

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P62738
Host	Mouse
Isotype	Mouse IgG2a
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for alpha-Smooth Muscle Actin, actin, alpha 2, smooth muscle, aorta (ACTA2) detection. Tested with WB, IHC-P, IHC-F in Human;mouse;rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	81633
Other Names	Actin, aortic smooth muscle, Alpha-actin-2, Acta2, Actsa, Actvs
Calculated MW	42009
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.1-0.5 μ g/ml, Human, mouse, rat, By Heat Immunohistochemistry(Frozen Section), 0.1-0.5 μ g/ml, Human, mouse, rat, - Western blot, 2 μ g/ml, Human, mouse, rat
Subcellular Localization	Cytoplasm, cytoskeleton.
Source	Eukaryota
Protein Name	Actin, aortic smooth muscle
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	1A4
Immunogen	N-terminal synthetic decapeptide of alpha-smooth muscle actin.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

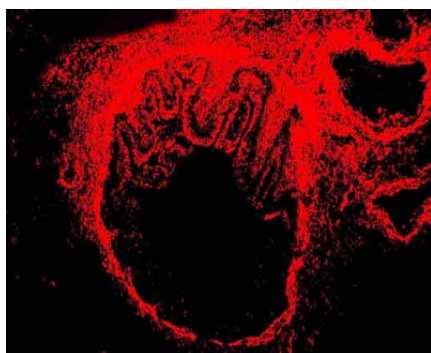
Protein Information

Name	Acta2
Synonyms	Actsa, Actvs
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Cellular Location	Cytoplasm, cytoskeleton.

Background

Ueyama et al.(1990) assigned the ACTSA gene to chromosome 10 by Southern blot analysis of DNAs from 18 rodent-human somatic cell hybrids. Regional mapping by in situ hybridization localized the gene to 10q22-q24. Assignment of the vascular smooth muscle actin gene ACTSA to human chromosome. Smooth muscle alpha-actin gene requires two E-boxes for proper expression in vivo and is a target of class I basic helix-loop-helix proteins.

Images



Anti-alpha-Smooth Muscle Actin antibody (monoclonal), ABO10489, IHC(P)IHC(P): Rat Cardiac Muscle Tissue

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