

DM001**Monoclonal Antibody to ACTA2 / aortic smooth muscle Actin - Purified**

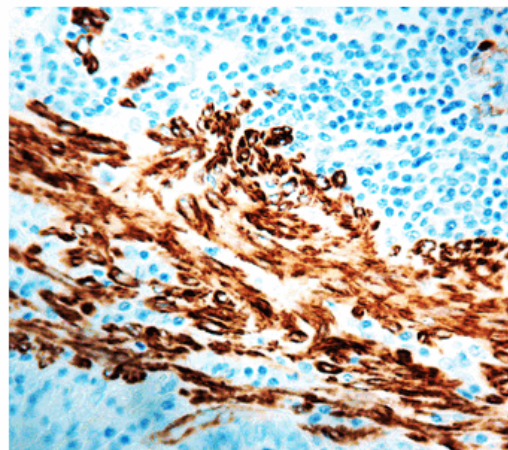
Alternate names:	ACTSA, ACTVS, Alpha-actin-2, Cell growth-inhibiting gene 46 protein
Quantity:	1 ml
Background:	Smooth muscle actin is expressed in normal smooth muscle and in myoepithelial cells, and also in tumours derived from these cells. Actins are involved in maintaining the structure and integrity of a cell, as well as cell motility. They are highly conserved proteins and make up the majority of the contractile apparatus. To date, six different actin isoforms have been described.
Uniprot ID:	P62736
NCBI:	NP_001135417.1
GeneID:	59
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	1A4/asm-1
Immunogen:	N-terminal decapeptide of alpha-smooth muscle Actin
Format:	State: Liquid purified Ig fraction containing Sodium Azide as preservative
Applications:	Immunohistochemistry on Formalin Fixed Paraffin Embedded Sections: Use Actin antibody at 1/25-1/50 dilution in an ABC method for 30 minutes at room temperature. <i>Recommended Positive Control:</i> Leiomyoma colon. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to alpha-smooth isoform of actin. It reacts with smooth muscle cells of vessels and different parenchymes. The antibody does not cross-react with beta and gamma-cytoplasmic, alpha-sarcomeric and alpha-myocardial actin isoforms. <i>Cellular Localization:</i> Cytoplasmic. Species: Bovine, Chicken, Human, Mouse, Rabbit and Rat. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Boeer U, Buettner FF, Klingenberg M, Antonopoulos GC, Meyer H, Haverich A, et al. Immunogenicity of intensively decellularized equine carotid arteries is conferred by the extracellular matrix protein collagen type VI. PLoS One. 2014 Aug 26;9(8):e105964. doi: 10.1371/journal.pone.0105964. eCollection 2014. PubMed PMID: 25157402.

General Readings:

1. Skalli et al. Am J Cell Biol 103: 2787, 1986.
2. Skalli et al. Lab Invest 60: 275, 1989.
3. Skalli et al. J Histo Chem 37: 315, 1989.
4. O'Byrne et al. Br J cancer 82: 1427, 2000.

Pictures:

Formalin fixed paraffin embedded human colon stained with Smooth Muscle Actin antibody DM001.



Formalin fixed paraffin embedded human leiomyoma stained with Smooth Muscle Actin antibody DM001.

