

Product datasheet

anti-alpha-Smooth Muscle Actin mouse monoclonal, 1A4/ASM-1, prediluted, purified

Short overview

 Cat. No.
 65001

 Quantity
 5 ml

Product description

HostMouseAntibody TypeMonoclonalIsotypeIgG2aClone1A4/ASM-1

Immunogen Synthetic N-terminus decapeptide of alpha-smooth-muscle isoform of actin

Formulation PBS pH 7.4 with 0.5% BSA and 0.09% sodium azide

UniprotID P62739 (Bovine),P08023 (Chicken),P62736 (Human),P62737 (Mouse),P62738 (Rat)

Synomym Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein [Cleaved into:

Actin, aortic smooth muscle, intermediate form], ACTA2, ACTSA, ACTVS, GIG46

Conjugate Unconjugated

Purification Affinity chromatography

Storage Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles

Intended useResearch use onlyApplicationICC/IF, IHC, WB

Reactivity Bovine, Chicken, Horse, Human, Mouse, Rat

Applications

Immunocytochemistry (ICC)Assay dependentImmunohistochemistry (IHC) - frozenReady-to-use

Immunohistochemistry (IHC) - paraffin Ready-to-use (protease treatment and/or microwave treatment

recommended)

Western Blot (WB) Assay dependent

Background

1A4/ASM-1 represents an excellent marker for myogenic soft tissue tumors and smooth muscle differentiation. Polypeptide reacting: specific for alpha-smooth-muscle isoform of actin (43 kDa). Tumors specifically detected: leiomyosarcoma, leiomyoma, certain stromal cells surrounding infiltrating ductal carcinoma of breast. Tested cultured cell lines: Stress fibers of smooth muscle-derived cells and some smooth muscle subtype fibroblasts

Product images



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References

Publication	Species	Application
Poosti, F. et al. Inhibition of renal fibrosis with a human	Human, Mouse	ICC-IF, IHC-P-IF
CXCL9-derived glycosaminoglycan-binding peptide. Clin.		
<u>Transl. Immunol. 11, 1–18 (2022)</u> .		
Jiang, D. et al. MSCs rescue impaired wound healing in a	human,mouse	WB,IHC-IF (paraffin),ICC-IF
murine LAD1 model by adaptive responses to low TGF-Î21		
levels. EMBO.Rep. 21, e49115 (2020)		
Schwinghammer, U. et al. α2-Adrenergic Receptor in Liver	human	IHC-IF,ICC-IF
Fibrosis: Implications for the Adrenoblocker Mesedin. Cells. 9,	_	
(2020)		
Buniatian, G. et al. Antifibrotic Effects of Amyloid-Beta and Its	mouse	IHC-IF,IHC (paraffin)
Loss in Cirrhotic Liver. Cells. 9, (2020)		
Munir, S. et al. TLR4-dependent shaping of the wound site by	mouse	IHC (frozen)/IF
MSCs accelerates wound healing. EMBO Rep. 21,		
e48777(2020).		