Product Information Sheet

Monoclonal Anti-α-Smooth Muscle Actin

Catalogue No. MA1106

Lot No. 08A12

Clone: 1A4

Ig type: mouse IgG2a

Size: 100μg/vial

Specificity

Human, mouse, rat.

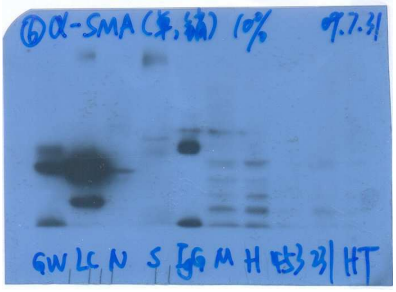
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)



Immunogen

N-terminal synthetic decapeptide ofα-smooth muscle actin.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2μg/ml with the appropriate system to detect α-SMA in cells and tissues.

Immunohistochemistry(P)

Atμg/ml to detect α-SMA in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 0.3-1.2μg/ml to detect α-SMA in formalin or acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100μg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for three month. It can also be aliquotted and stored frozen at -20˚C for longer time.

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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.

REFERENCE

1. Kumar, M. S.; Hendrix, J. A.; Johnson, A. D.; Owens, G. K. : 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. Circ. Res. 92: 840-847, 2003.

2. Ueyama, H.; Bruns, G.; Kanda, N. : Assignment of the vascular smooth muscle actin gene ACTSA to human chromosome 10. Jpn. J. Hum. Genet. 35: 145-150, 1990.