



## Product Information Sheet

### Monoclonal Anti- $\alpha$ -Smooth Muscle Actin (Magnetic Bead conjugate)

**Catalogue No.** MA1106-M

**Lot No.** 08A12

**Clone:** 1A4

**Ig type:** mouse IgG2a

**Size:** 200 $\mu$ l

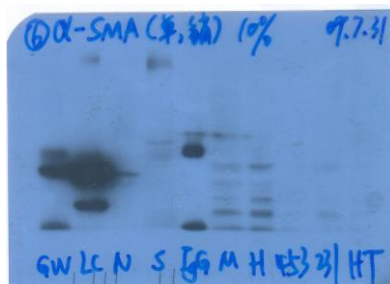
**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Recommended application**

*Immunoprecipitation(IP)*



**Immunogen**

N-terminal synthetic decapeptide of  $\alpha$ -smooth muscle actin.

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Formulation**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg  $\text{NaN}_3$ .

**Storage**

Store at 4°C for frequent use.

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

**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 10. 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.

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