

Mouse Anti-Human alpha Actin

CatNo **K046**

Smooth Muscle, monoclonal

BatchNo: See Label
Expiration Date: See Label
Storage: 2-8°C for 1 month
-20°C for longer

Clone Number:	1A4
Volume/Quantity:	100 µl
Product Form:	Mouse ascites fluid - liquid
Buffer:	Phosphate buffered saline
Preservatives Stabilisers:	15 mM Sodium Azide (NaN ₃)
Immunogen:	Alpha-smooth muscle actin N-terminal decapeptide cuopeld to KLH
Isotype:	IgG2a (Mouse)
Specificity:	K046 recognises smooth muscle actin, being specific for the alpha-isoform. Smooth muscle actin is expressed in normal smooth muscle and in myoepithelial cells, and also in tumours derived from these cells. Anti-alpha Actin Smooth Muscle help in the characterization of stromal cell heterogeneity in various organs and in distinguishing smooth muscle cells from fibroblasts in mixed cultures.
Species Cross Reactivity:	Bovine, chicken, dog, frog, goat, guinea pig, mouse, rabbit, rat, sheep, snake, swine.

Applications:

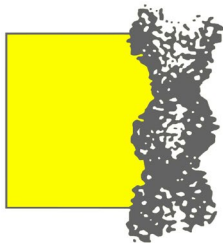
Suggested Working Dilution

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FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/400 – 1/800
Immunohistology-paraffin	Yes	1/400 – 1/800
Immunofluorescence	Yes	1/400 – 1/800
Immunohistology-resin	Not tested	
ELISA	Yes	
Immunoprecipitation	Not tested	
Western Blotting	Yes	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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monoclonal

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Immunohistology

Pre-treatment: This product does not require protein digestion pre-treatment of paraffin sections
Positive Control Tissue: Smooth muscle from vascularised tissues such as gastrointestinal tract.
Recommended Secondary Reagents: F(ab')₂ rabbit anti-mouse IgG HRP conjugate – (LINARIS CatNo LST0013B)
Vectastain[®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector[®] Red (Vector CatNo SK-5100).
Vectastain[®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls: Mouse IgG2a Negative Control (LINARIS CatNo ITC0929)

Westernblotting

Chemiluminescent Substrate: DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (Vector CatNo SK-6605) and Peroxidase (POD) (Vector CatNo SK-6604).

References

1. Skalli, O., et al., (1986) A monoclonal antibody against alpha-smooth muscle actin: a new probe for smooth muscle differentiation J. Cell Biol., 103, 2787

Storage Conditions: Store at 2-8°C for one month or at -20°C for longer!
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 12 months from date of despatch.
Health and Safety Information: (A full Health and Safety assessment is available upon request)
This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

