Product datasheet

Anti-a-SMA/ACTA2 Antibody (Clone#1A4)

Catalog Number: *BM0002*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator, Wuhan East Lake High-tech Development Zone
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Basic Information

Product Name	Anti-a-SMA/ACTA2 Antibody (Clone#1A4)
Gene Name	ACTA2
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB,IHC,IF
Contents	200ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA and 50% glycerol.
Immunogen	N-terminal synthetic decapeptide of alpha-smooth muscle actin.
Concentration	200ug/ml
Purification	protein G purified.
Observed MW	42 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:1000-5000 Immunofluorescence (IF): 1:1000-5000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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

Anti-a-SMA/ACTA2 Antibody (Clone#1A4)被引用在551文献中。

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Selected Validation Data

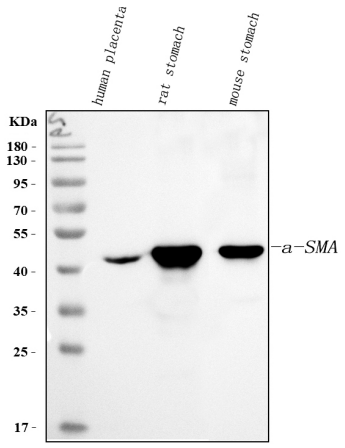

Figure 1. Western blot analysis of anti-α-SMA antibody (BM0002). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: rat stomach tissue lysates,
Lane 3: mouse stomach tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-α-SMA antigen affinity purified polyclonal antibody (BM0002) and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for α-SMA at approximately 42 kDa. The expected band size for α-SMA is at 42 kDa.

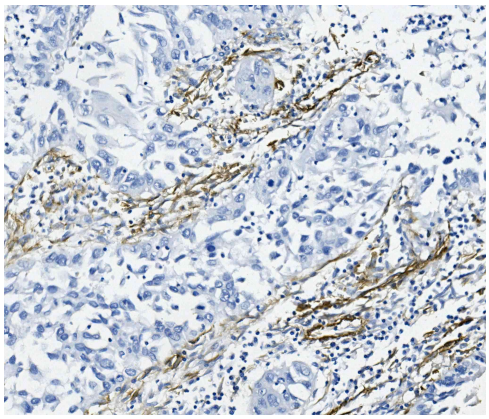

Figure 2. IHC analysis of α-SMA using anti-α-SMA antibody (BM0002).
α-SMA was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1022) as the chromogen.

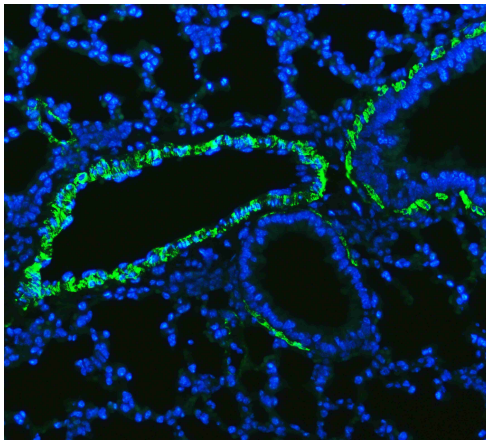

Figure 11. IF analysis of α-SMA using anti-α-SMA antibody (BM0002).
α-SMA was detected in a paraffin-embedded section of rat lung tissue. Dylight488 conjugated Anti-mouse IgG Secondary Antibody ((green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).