BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Alpha-SMA Monoclonal Antibody(6A12)

Description

Product type	Primary Antibody
Code	BT-MCA0083
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of α-SMA
Mol wt	N/A
Species reactivity	Human,Mouse,Rat
Clonality	Monoclonal
Recommended application	WB, IF, ICC, IHC-p
Concentration	1 mg/ml
Full name	Actin, aortic smooth muscle
Synonyms	ACTA2; ACTSA; ACTVS; GIG46; Actin; aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Recommended Dilution

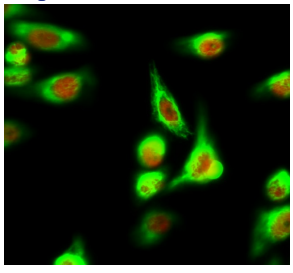
IF: 1:200

IHC: 1:200-2000

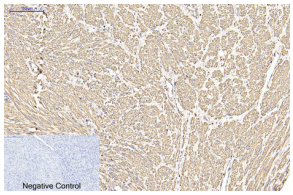
WB: 1:10000-100000

Not yet tested in other applications.

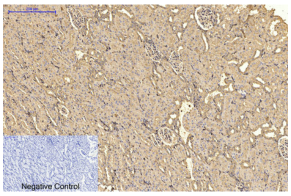
Images



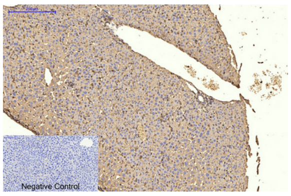
Immunofluorescence analysis of Hela cell. c-Fos Polyclonal Antibody(red) was diluted at 1:200(4°C overnight). Alpha-SMA Monoclonal antibody(6A12)(green) was diluted at 1:200(4°C overnight).



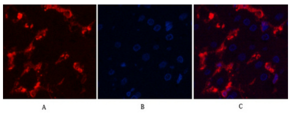
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1.Alpha-SMA Monoclonal antibody(6A12) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



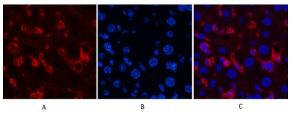
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1.Alpha-SMA Monoclonal antibody(6A12) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1.Alpha-SMA Monoclonal antibody(6A12) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-liver tissue. 1.Alpha-SMA Monoclonal antibody(6A12)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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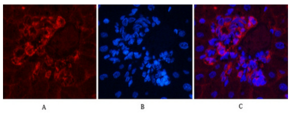
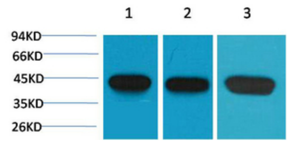
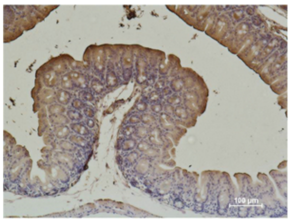


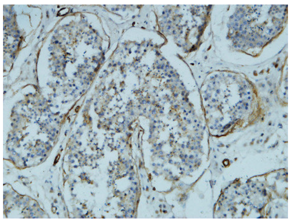
Immunofluorescence analysis of Rat-liver tissue. 1.Alpha-SMA Monoclonal antibody(6A12)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



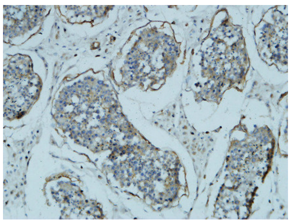
Western blot analysis of Hela, 3T3 and Rat Brain using Alpha-SMA Monoclonal antibody.



Immunohistochemical analysis of paraffin-embedded Mouse Cecal Tissue using Alpha-SMA Monoclonal antibody.



Immunohistochemical analysis of paraffin-embedded Human testis.1.Antibody was diluted at 1:200(4°C overnight). 2.High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3.Secondary antibody was diluted at 1:200(room temperature, 30min).



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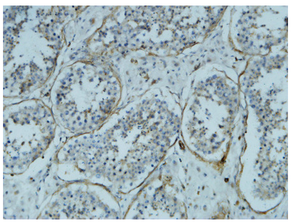

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Storage

-20°C for one year