BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Alpha skeletal muscle actin Monoclonal Antibody(4B11)

Description

Product type	Primary Antibody
Code	BT-MCA0082
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of α skeletal muscle actin
Mol wt	42051
Species reactivity	Human,Mouse,Rat
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC, IP
Concentration	1 mg/ml
Full name	Actin alpha skeletal muscle
Synonyms	ACTA1; ACTA; Actin; alpha skeletal muscle; Alpha-actin-1

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

Background

The product 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. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

Recommended Dilution

IF: 1:200

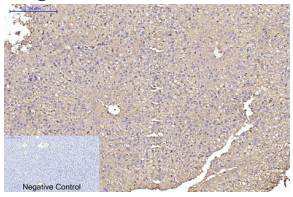
IHC: 1:50-300

IP: 1:200

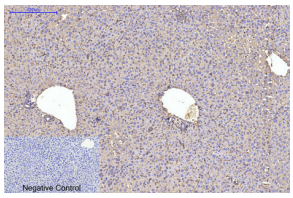
WB: 1:500-10000

Not yet tested in other applications.

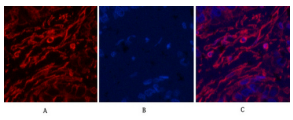
Images



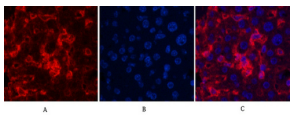
Immunohistochemical analysis of paraffin-embedded Rat-liver tissue. 1.Alpha skeletal muscle actin Monoclonal antibody(4B11) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



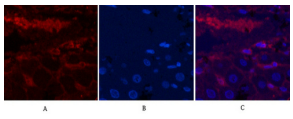
Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1.Alpha skeletal muscle actin Monoclonal antibody(4B11) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



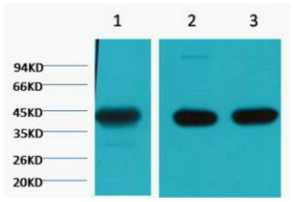
Immunofluorescence analysis of Human-liver-cancer tissue. 1.Alpha skeletal muscle actin Monoclonal antibody(4B11)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Mouse-liver tissue. 1.Alpha skeletal muscle actin Monoclonal antibody(4B11)(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



Immunofluorescence analysis of Rat-liver tissue. 1.Alpha skeletal muscle actin Monoclonal antibody(4B11)(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 1) Hela, 2) Mouse Brain tissue, 3) Rat Brain tissue diluted at 1:20000.

Storage

-20°C for one year

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