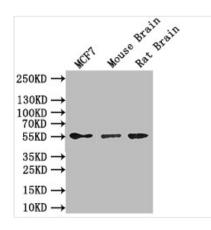


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GFAP Recombinant Monoclonal Antibody

Product Code	CSB-RA009369MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P14136
Immunogen	Recombinant Human GFAP protein
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB, IHC, IF, FC; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IF:1:20-1:200, FC:1:20-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse IgG2a
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience;Tags & Cell Markers;Signal transduction?Stem cells
Gene Names	GFAP
Clone No.	6B12

Image



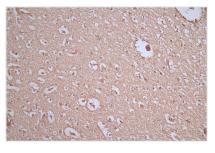
Western Blot Positive WB detected in: MCF7 whole cell Iysate,Mouse Brain tissue Iysate,Rat Brain tissue Iysate All lanes: GFAP antibody at 1:1000 Secondary Goat polyclonal to mouse IgG at 1/50000 dilution Predicted band size: 50 kDa Observed band size: 55 kDa

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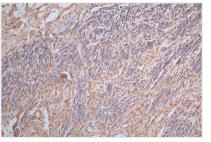


IHC image of CSB-

RA009369MA1HU diluted at 1:300 and staining i n paraffin-

embedded human brain tissue performed on a L eica BondTM system. After dewaxing and hydrati on, antigen retrieval was mediated by high press ure in a citrate buffer (pH 6.0). Section was block ed with 10% normal goat serum 30min at RT. Th en primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.

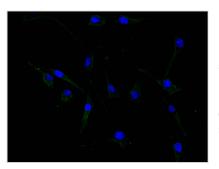


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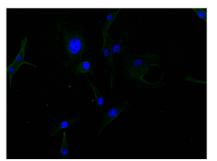
embedded human glioma cancer performed on a Leica BondTM system. After dewaxing and hydr ation, antigen retrieval was mediated by high pre ssure in a citrate buffer (pH 6.0). Section was blo cked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a G oat anti-

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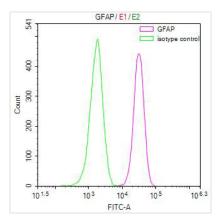
Immunofluorescence staining of SH-SY5Y cell with CSB-

RA009369MA1HU at 1:200, counterstained with DAPI. The cells were fixed in 4% for maldehyde and blocked in 10% normal Goat Ser um. The cells were then incubated with the antib ody overnight at 4C. The secondary antibody wa s FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of U87 cell with CS B-RA009369MA1HU at 1:200, counterstained with DAPI. The cells were fixed in 4% for maldehyde and blocked in 10% normal Goat Ser um. The cells were then incubated with the antib ody overnight at 4C. The secondary antibody wa s FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).





Overlay Peak curve showing Jurkat cells stained with CSB-

RA009369MA1HU (red line) at 1:50. Then 10% n ormal goat serum was Incubated to block non-specific protein-

protein interactions followed by the antibody (1µg /1*10⁶cells) for 45 min at 4°C. The secondary ant ibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4 °C. Isotype control antibody (green line) was mo use IgG1 (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was pe rformed.

Description

The production of the recombinant monoclonal antibody targeting GFAP involves the initial step of constructing GFAP antibody genes within plasmid vectors. These engineered plasmid vectors are subsequently introduced into appropriate host cells for expression using exogenous protein expression techniques. Following this, this GFAP recombinant monoclonal antibody goes through purification using affinity chromatography. It has been rigorously validated for various applications, including ELISA, WB, IHC, IF, and FC. This antibody exhibits reactivity with GFAP proteins derived from human, mouse, and rat species.

GFAP is a critical protein in astrocytes that provides structural support, participates in astrocyte activation and reactive gliosis, contributes to the bloodbrain barrier's integrity, and has both neuroprotective and diagnostic roles in various neurological conditions.