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Anti-GFAP Rabbit Monoclonal Antibody

Catalog Number: M00213-1

Overview

Product Name	Anti-GFAP Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GFAP Rabbit Monoclonal Antibody catalog # M00213-1. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal DBI-7
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P14136

Technical Details

Immunogen	A synthesized peptide derived from human GFAP
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:1000-5000 IHC 1:50-200 ICC/IF 1:50-200 IP 1:30

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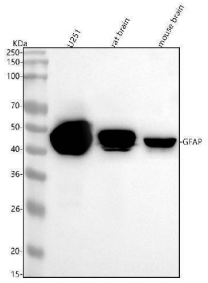
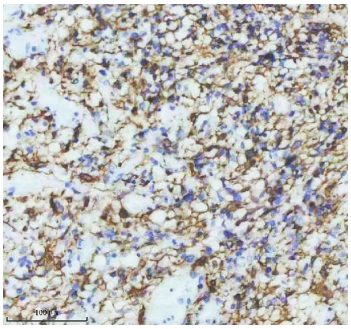
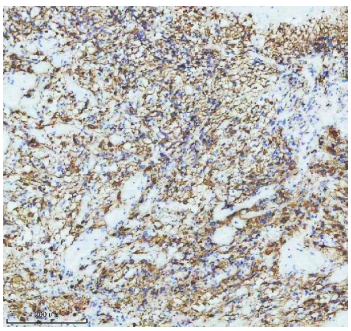
Anti-GFAP Rabbit Monoclonal Antibody (M00213-1) Images



Western blot analysis of GFAP using anti-GFAP antibody (M00213-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U251 whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GFAP antigen affinity purified monoclonal antibody (Catalog # M00213-1) at 1:10000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GFAP at approximately 45 kDa. The expected band size for GFAP is at 50 kDa.



IHC analysis of GFAP using anti-GFAP antibody (M00213-1). GFAP was detected in a paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-GFAP Antibody (M00213-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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IHC analysis of GFAP using anti-GFAP antibody (M00213-1). GFAP was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue

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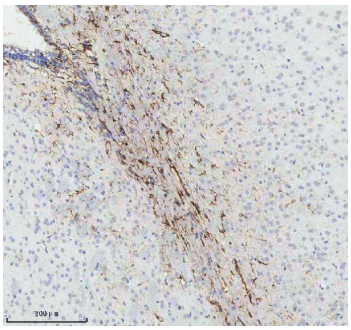

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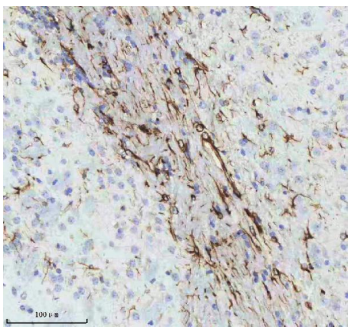

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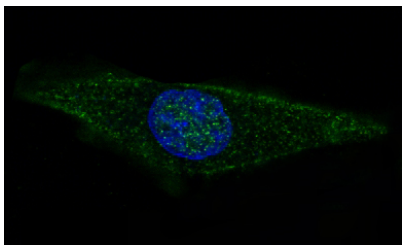
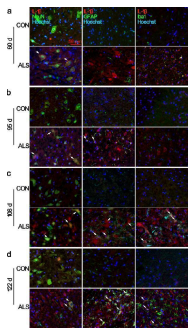
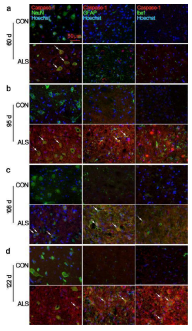


Immunofluorescent analysis of SH-SY5Y cells, using GFAP Antibody .



Cell specific location of IL-1beta in the lumbar spinal cord. Representative images of double immunofluorescence staining for IL-1beta with NeuN, GFAP, or Iba1 are shown. At 60 d, increased expression of IL-1beta was observed in the neuronal cytoplasm of ventral horn spinal cord of ALS mice, and low expression was found in CON mice a . Besides NeuN + /IL-1beta + double positive cells, dramatic co-localization of IL-1beta with activated GFAP + astrocytes and Iba1 + microglia in transgenic ALS mice were observed from 95 to 122 d b , c , d . Arrows indicate double-labelled cells. Scale bar 50 um Index in PubMed under a CC BY license. PMID: 35945502



Cell-specific location of caspase-1 in the lumbar spinal cord. Representative images of double immunofluorescence staining for caspase-1 with NeuN, GFAP, or Iba1 are shown. At 60 d, caspase-1 was mainly expressed in the neuronal cytoplasm of ventral horn spinal cord of ALS mice, and low expression was found in CON mice a . Increased co-localization of caspase-1 with activated GFAP + astrocytes and Iba1 + microglia in ALS mice were observed from 95 to 122 d b , c , d . Arrows indicate double-labelled cells. Scale bar 50 um Index in PubMed under a CC BY license. PMID:

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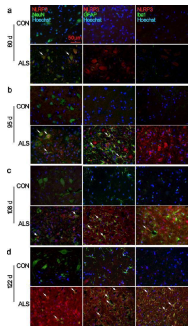

Cell-specific location of NLRP3 in the lumbar spinal cord. Representative images of double immunofluorescence staining for NLRP3 with NeuN, GFAP, or Iba1 are shown. At 60 d, NLRP3 was mainly expressed in the neuronal cytoplasm of ventral horn spinal cord of ALS mice, and low expression was found in CON mice a . Dramatic co-localization with neurons and activated GFAP + astrocytes in ALS mice was observed at 95 d b . Increased NLRP3 expression was observed in GFAP + and Iba1 + cells in the ALS spinal cord c , d . Arrows indicate double-labelled cells. Scale bar 50 um Index in PubMed under a CC BY license. PMID: 35945502

61 Publications Citing This Product

1. PubMed ID: 31179640, Deng J,Xu T,Yang J,Zhang KM,Li Q,Yu XY,Li R,Fu J,Jiang Q,Ma JX,Chen YM.Sema7A, a brain immune regulator, regulates seizure activity in PTZ-kindled epileptic rats.CNS Neurosci Ther.2020 Jan;26(1):101-116.doi:10.1111/cns.13181.Epub 2019 Jun 9.PMID:31179640;

2. PubMed ID: 33595805, Chen X,Zhang L,Hua F,Zhuang Y,Liu H,Wang S.EphA4 Obstructs Spinal Cord Neuron Regeneration by Promoting Excessive Activation of Astrocytes.Cell Mol Neurobiol.2021 Feb 17.doi:10.1007/s10571-021-01046-x.Epub ahead of print.PMID:33595805.

3. PubMed ID: -, Zhang LY,Jin QQ,Hölscher C,Li L.Glucagon-like peptide-1/glucose-dependent insulinotropic polypeptide dual receptor agonist DA-CH5 is superior to exendin-4 in protecting neurons in the 6-hydroxydopamine rat Parkinson model. Neural Regen Res 2021;16:1660-70

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