10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-GFAP Antibody

Peptide-affinity purified goat antibody

Catalog # AF1477a

Specification

Goat Anti-GFAP Antibody - Product Information

Application	**EIA, WB, IHC**
Primary Accession	P14136
Other Accession	NP_002046, 2670, 14580 (mouse), 24387 (rat)
Reactivity	**Human, Mouse**
Predicted	**Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**49880**

Goat Anti-GFAP Antibody - Additional Information

Gene ID 2670

Other Names
Glial fibrillary acidic protein, GFAP, GFAP

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-GFAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GFAP Antibody - Protein Information

Name GFAP

Function
GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.

Cellular Location
Cytoplasm. Note=Associated with intermediate filaments

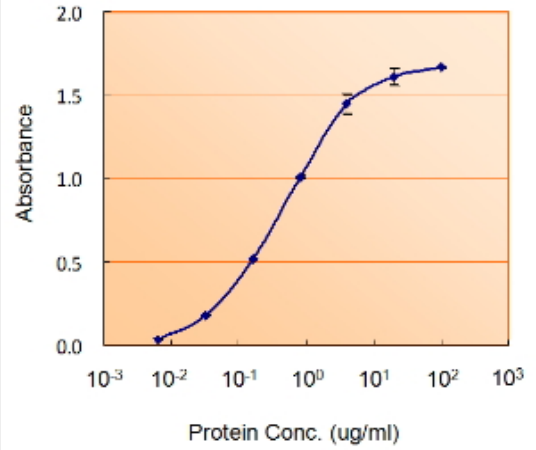
Tissue Location
Expressed in cells lacking fibronectin.

Goat Anti-GFAP Antibody - Protocols

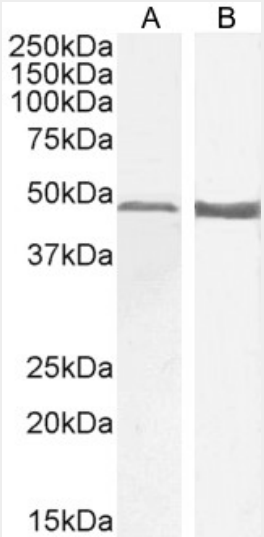
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-GFAP Antibody - Images

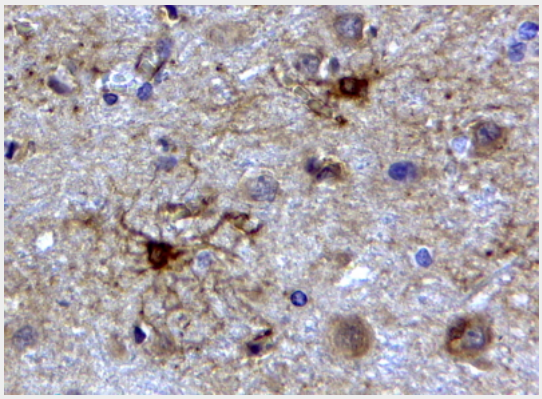


AF1477a (5ug/ml) as the reporter with EB002015 as the capture rabbit antibody (5ug/ml).**This data is from a previous batch, not on sale.**

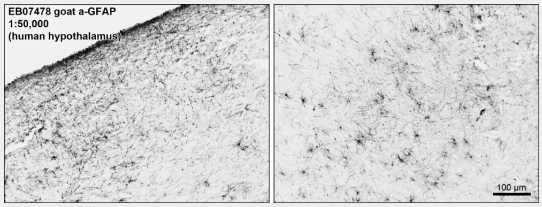


EB07478 (0.001µg/ml) staining of Human Cerebellum (A) and Cerebral Cortex (B) lysate (35µg

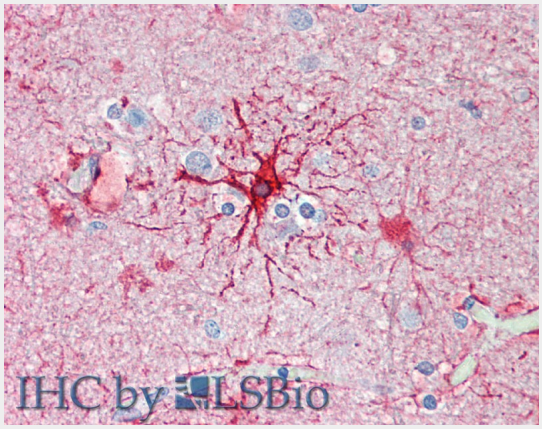
protein in RIPA buffer). Detected by chemiluminescence.



EB07478 (2µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining. **This data is from a previous batch, not on sale.**



EB07478 (0.01µg/ml) staining of PFA-perfused cryosection of Human Hypothalamus. Antigen retrieval with citrate buffer pH 6 at 80C for 30min, HRP-staining with Ni-DAB after Biotin-SP-antigoat amplification. Data obtained by Prof. Erik Hrabovszky, Inst, Ex



EB07478 (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**

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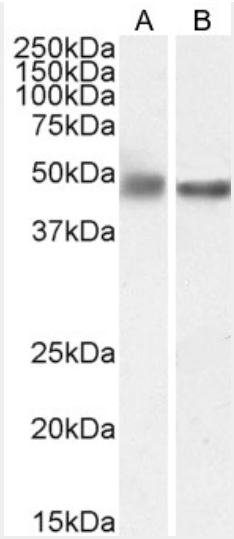
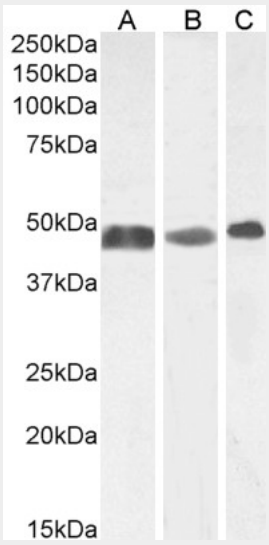


EB07478 (0.003µg/ml) staining of Mouse (A) and (0.01ug/ml) Rat (B) Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07478 (0.001µg/ml) staining of Human Brain (Cerebellum) (A), (0.3ug/ml) Mouse (B) and (0.01ug/ml) Rat (C) Brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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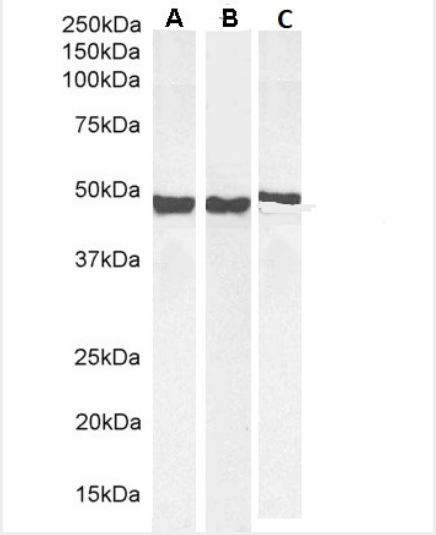
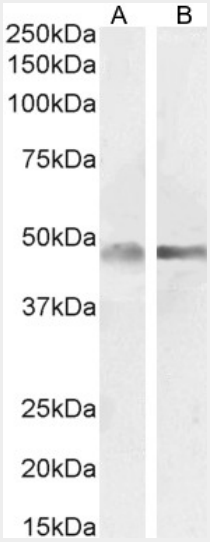


EB07478 (0.01µg/ml) staining of Human Cerebellum (A),Mouse Brain (B) and (0.003ug/ml) Rat Brain (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07478 (0.005µg/ml) staining of Human Cerebellum (A) and (0.01ug/ml) Cerebral Cortex (B) (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07478 (0.1ug/ml) staining of Rat Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

Goat Anti-GFAP Antibody - Background

This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Goat Anti-GFAP Antibody - References

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030.
Withaferin A targets intermediate filaments glial fibrillary acidic protein and vimentin in a model of retinal gliosis. Bargagna-Mohan P, et al. J Biol Chem, 2010 Mar 5. PMID 20048155.
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Redox proteomic analysis of carbonylated brain proteins in mild cognitive impairment and early Alzheimer's disease. Sultana R, et al. Antioxid Redox Signal, 2010 Mar. PMID 19686046.
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