

# Product Datasheet

## GFAP Antibody (ASTRO/1974R) NBP3-07877-100ug

Unit Size: 100 ug

Store at 4C.

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**NBP3-07877-100ug**

GFAP Antibody (ASTRO/1974R)

**Product Information**

<b>Unit Size</b>	100 ug
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	ASTRO/1974R
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Target Molecular Weight</b>	50 kDa

**Product Description**

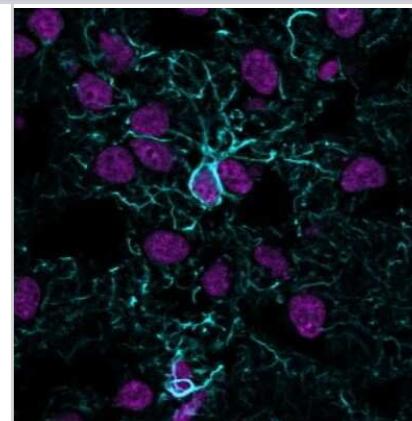
<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP3-08431)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2670
<b>Gene Symbol</b>	GFAP
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Rabbit
<b>Marker</b>	Astrocyte & Neural Stem Cell Marker
<b>Specificity/Sensitivity</b>	This monoclonal antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins. GFAP is specifically found in astroglia. GFAP is a very popular marker for localizing benign astrocyte and neoplastic cells of glial origin in the central nervous system. Antibody to GFAP is useful in differentiating primary gliomas from metastatic lesions in the brain and for documenting astrocytic differentiation in tumors outside the CNS.
<b>Immunogen</b>	Recombinant human full-length GFAP protein (Uniprot: P14136)

**Product Application Details**

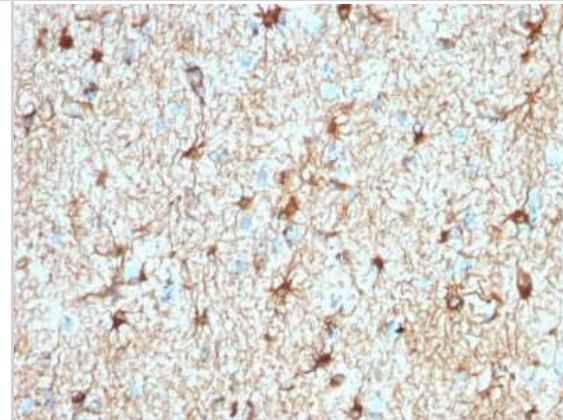
<b>Applications</b>	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Multiplex Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry 1-2 ug/million cells, Immunocytochemistry/ Immunofluorescence 2-3 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Multiplex Immunofluorescence 0.15ug/mL
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2 ug/mL for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

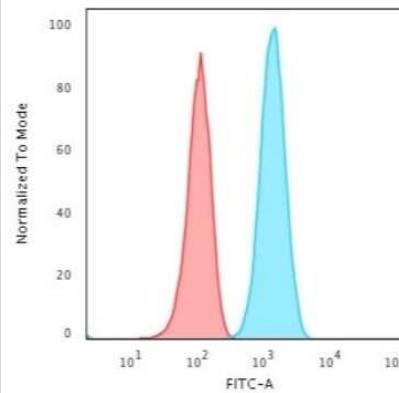
Immunocytochemistry/Immunofluorescence: GFAP Antibody (ASTRO/1974R) [NBP3-07877] - Immunofluorescence Analysis of methanol-fixed human cerebral cortex cryosection stained with CF405S GFAP antibody (ASTRO/1974R) (blue) and CF647 Monoclonal Mouse Anti-Histone H1 (HH1/957) (magenta).



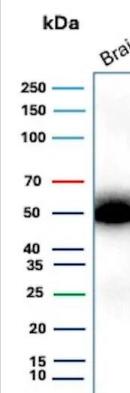
Immunohistochemistry-Paraffin: GFAP Antibody (ASTRO/1974R) [NBP3-07877] - Formalin-fixed, paraffin-embedded human Cerebellum stained with GFAP Rabbit Recombinant Monoclonal Antibody (ASTRO/1974R).



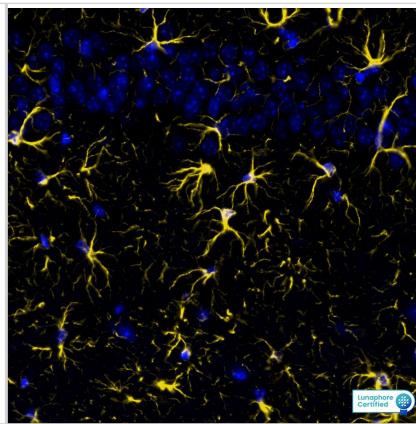
Flow Cytometry: GFAP Antibody (ASTRO/1974R) [NBP3-07877] - Flow Cytometric Analysis of T98G cells using GFAP Rabbit Recombinant Monoclonal Antibody (ASTRO/1974R) followed by Goat anti-Rabbit IgG- CF488 (Blue); Isotype Control (Red).



Western Blot Analysis of human brain tissue lysate using GFAP Antibody (ASTRO/1974R).



GFAP was detected in immersion fixed paraffin-embedded sections of mouse Brain Cortex using Rabbit Anti-Mouse GFAP Monoclonal Antibody (Catalog # NBP3-07877) at 0.15ug/mL at 37 ° Celsius for 2 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR555RB](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the astrocytes showing cytoplasmic staining. Protocol available in [COMET™ Panel Builder](#).





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## Products Related to NBP3-07877-100ug

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00002670-Q01-10ug	Recombinant Human GFAP GST (N-Term) Protein

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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