# Product Datasheet

## GFAP Antibody (SPM248)
## NBP2-34353-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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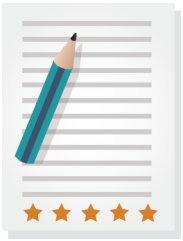
Updated 10/23/2024 v.20.1





# NBP2-34353-0.1mg

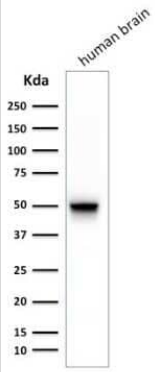
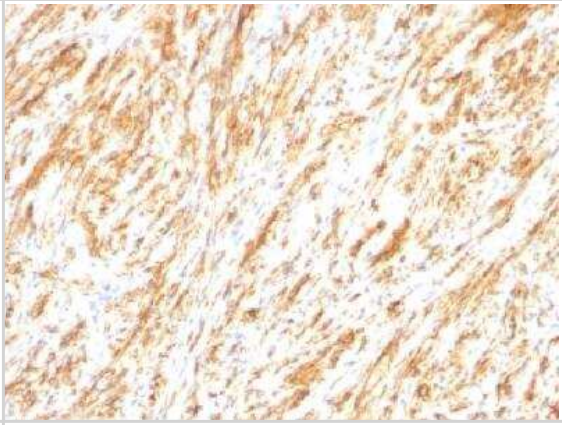
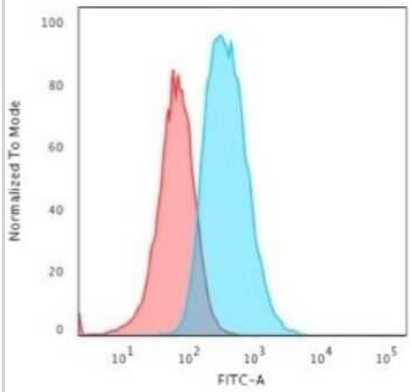
GFAP Antibody (SPM248)

| Product Information | |
|---|---|
| **Unit Size** | 0.1 mg |
| **Concentration** | 0.2 mg/ml |
| **Storage** | Store at 4C. |
| **Clonality** | Monoclonal |
| **Clone** | SPM248 |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG1 Kappa |
| **Purity** | Protein A or G purified |
| **Buffer** | 10 mM PBS with 0.05% BSA |
| **Target Molecular Weight** | 50 kDa |

| Product Description | |
|---|---|
| **Description** | 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. (NBP2-34401)<br><br>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C. |
| **Host** | Mouse |
| **Gene ID** | 2670 |
| **Gene Symbol** | GFAP |
| **Species** | Human, Mouse, Rat, Porcine, Bovine, Chicken, Rabbit |
| **Marker** | Astrocyte & Neural Stem Cell Marker |
| **Specificity/Sensitivity** | 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. |
| **Immunogen** | GFAP isolated from pig spinal cord (Uniprot: P14136) |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| **Recommended Dilutions** | Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml |
| **Application Notes** | 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

| | |
|---|---|
| Western Blot: GFAP Antibody (SPM248) [NBP2-34353] - Western Blot Analysis of human brain tissue lysate using GFAP Antibody (SPM248). |   |
| Immunohistochemistry-Paraffin: GFAP Antibody (SPM248) [NBP2-34353] - Formalin-fixed, paraffin-embedded human schwannoma stained with GFAP monoclonal antibody (SPM248). |  |
| Flow Cytometry: GFAP Antibody (SPM248) [NBP2-34353] - Flow Cytometric Analysis of T98G cells using GFAP Antibody (SPM248) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red). |   |

## Publications

Raj N, McEachin ZT, Harousseau W et al. Cell-type-specific profiling of human cellular models of fragile X syndrome reveal PI3K-dependent defects in translation and neurogenesis Cell Rep 2021-04-14 [PMID: 33852833]

Details:
Citation using the Azide and BSA Free format of this antibody.

Coleman LG, Zou J, Crews FT Microglial-derived miRNA let-7 and HMGB1 contribute to ethanol-induced neurotoxicity via TLR7 J Neuroinflammation Jan 25 2017 12:00AM [PMID: 28118842] (FLOW, ELISA, Human) J Neuroinflammation. 2017-01-25 [PMID: 28118842]

Details:
Citation using the Alexa Fluor 488 form of this antibody.

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## Products Related to NBP2-34353-0.1mg

| | |
|---|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) |
| 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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