

Store at
-20°C
#47084**GFAP (D1F4Q) XP[®] Rabbit mAb
(Biotinylated)**
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For Research Use Only. Not for Use in Diagnostic Procedures.

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| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 50 | Source/Isotype: Rabbit IgG | UniProt ID: #P14136 | Entrez-Gene Id: 2670 |
| Product Usage Information | | Application Western Blotting | | Dilution 1:1000 | | |
| Storage | | Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | GFAP (D1F4Q) XP® Rabbit mAb (Biotinylated) recognizes endogenous levels of total GFAP protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp395 of human GFAP protein. | | | | |
| Description | | This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated GFAP (D1F4Q) XP® Rabbit mAb #12389. | | | | |
| Background | | The cytoskeleton consists of three types of cytosolic fibers: microfilaments (actin filaments), intermediate filaments, and microtubules. Major types of intermediate filaments are specifically expressed in particular cell types: cytokeratins in epithelial cells, glial fibrillary acidic protein (GFAP) in glial cells, desmin in skeletal, visceral, and certain vascular smooth muscle cells, vimentin in cells of mesenchymal origin, and neurofilaments in neurons. GFAP and vimentin form intermediate filaments in astroglial cells and modulate their motility and shape (1). In particular, vimentin filaments are present at early developmental stages, while GFAP filaments are characteristic of differentiated and mature brain astrocytes. Thus, GFAP is commonly used as a marker for intracranial and intraspinal tumors arising from astrocytes (2). In addition, GFAP intermediate filaments are also present in nonmyelin-forming Schwann cells in the peripheral nervous system (3). | | | | |
| Background References | | 1. Eng, L.F. et al. (2000) <i>Neurochem. Res.</i> 25, 1439-51. 2. Goebel, H.H. et al. (1987) <i>Acta. Histochem. Suppl.</i> 34, 81-93. 3. Jessen, K.R. et al. (1990) <i>Development</i> 109, 91-103. | | | | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | W: Western Blotting |
| Cross-Reactivity Key | H: Human M: Mouse R: Rat |
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