Cell Signaling 084 store at -20C GFAP (D1F4Q) XP[®] Rabbit mAb (Biotinylated) ΤΕСΗΝΟΙΟ<u>ΘΥ</u>® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Source/Isotype: Applications: Reactivity: Sensitivity: MW (kDa): UniProt ID: Entrez-Gene Id: WB HMR Endogenous 50 Rabbit IgG #P14136 2670 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and Storage 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. **Product 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. 50 MW (kDa) 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). 1. Eng, L.F. et al. (2000) Neurochem. Res. 25, 1439-51. **Background References** 2. Goebel, H.H. et al. (1987) Acta, Histochem, Suppl. 34, 81-93. 3. Jessen, K.R. et al. (1990) Development 109, 91-103. **Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot). IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. **Applications Key** WB: Western Blotting **Cross-Reactivity Key** H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected **Trademarks and** Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. Patents All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information. Limited Uses

GFAP (D1F4Q) XP® Rabbit mAb (Biotinylated) (#47084) Datasheet Without Images Cell Signaling Technology

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