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Datasheet for 200-303-W55

GFAP Antibody Peroxidase

Overview

Description:	Anti-GFAP (MOUSE) Monoclonal Antibody Peroxidase Conjugated - 200-303-W55
Item No.:	200-303-W55
Size:	100 µg
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	The 50 kDa type III intermediate filament protein glial fibrillary acidic protein (GFAP) is a major structural component of astrocytes. GFAP associates with the calcium binding protein annexin II-p2 and S-100. Association with these proteins together with phosphorylation regulates GFAP polymerization. Astroycytes respond to brain injury by proliferatin (astrogliosis), and one of the first events to occur during astrocyte proiliferation is increased GFAP expression. Interestingly, antibodies to GFAP have been detected in individuals with dementia. Anti-GFAP is ideal for investigators involved in Neuroscience Research, including Alexander Disease, Oligodendroglioma, Cytoskleton Remolding Neurofilaments and PIP3/AKT Signaling.
Synonyms:	Glial fibrillary acidic protein, Intermediate filament protein, Astrocyte, gfapl, DKFZp459C0729, MGC139638, FLJ45472, AI836096, GFAP antibody
Host Species:	Mouse
Conjugate:	Peroxidase (HRP)
Clonality:	Monoclonal
Clone ID:	S206A-8
Format:	IgG1

Target Details

Gene Name:	GFAP
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GFAP Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to amino acids 411-422 (KTVEMRDGEVIK) of human GFAP.
Purity/Specificity:	Anti-GFAP Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with rat and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with GFAP-R416W and other GFAP mutant proteins can be expected.
Relevant Links:	• UniProtKB - P14136 • GeneID - 2670

Application Details

Application Note:	Anti-GFAP HRP Conjugated Antibody is suitable for use in Western blot, Immunohistochemistry, and Immunocytochemistry. Expect a band approximately ~50 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Conjugated antibodies should be stored according to the product label. Product stored in 73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide and 0.23mM Citrate in dH2O.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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