

Datasheet for 200-305-W56**GFAP R416WT Antibody Alkaline Phosphatase****Overview**

Description:	Anti-GFAP R416WT (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - 200-305-W56
Item No.:	200-305-W56
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. Astrocytes respond to brain injury by proliferatin (astrogliosis), and one of the first events to occur during astrocyte proliferation 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, Cytoskeleton 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:	Alkaline Phosphatase (AP)
Clonality:	Monoclonal
Clone ID:	S206B-9
Format:	IgG1

Target Details

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

Immunogen:	Anti-GFAP R416WT 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 R416WT 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. No cross-reactivity with other GFAP mutant proteins can be expected.
Relevant Links:	• UniProtKB - P14136 • GeneID - 2670

Application Details

Application Note:	Anti-GFAP R416WT Alkaline Phosphatase 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
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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