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Datasheet for 200-308-W56

GFAP R416WT Antibody Phycoerythrin

Overview

Description:	Anti-GFAP R416WT (MOUSE) Monoclonal Antibody Phycoerythrin Conjugated - 200-308-W56
Item No.:	200-308-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. 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:	R-Phycoerythrin (RPE)
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 R-PE 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 95.64mM Phosphate, 2.48mM MES and 2mM EDTA.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.