



Anti-GFAP monoclonal antibody, clone 2E1 (CABT-50950MB)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Bovine GFAP antibody, clone 2E1 recognizes glial fibrillary acidic protein, or GFAP, a class III intermediate filament. During development of the central nervous system, GFAP distinguishes astrocytes from other glial cells. It is involved in various cellular functions, such as cell structure and movement, cell communication and the functioning of the blood-brain barrier. It also plays a role in mitosis by adjusting the filament network present in the cell. Defects in GFAP are a cause of Alexander disease, a rare disorder of the central nervous system affecting mostly males. It is a progressive leukoencephalopathy resulting in mental and physical retardation, dementia, seizures and early death. Mouse anti Bovine GFAP antibody, clone 2E1 may be used in conjunction with clones 1B4 and 4A11 for increased sensitivity when used in immunohistology.

Specificity	GFAP
Immunogen	Bovine spinal cord homogenate.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Bovine, Chicken, Dog, Guinea pig, Human, Mouse, Pig, Rabbit, Rat, Sheep
Clone	2E1
Conjugate	Unconjugated
Applications	IHC-Fr; IHC-P; RIA; WB
Format	Purified IgG - liquid
Size	100 µg

Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	GFAP glial fibrillary acidic protein [Homo sapiens (human)]
Official Symbol	GFAP
Synonyms	GFAP; glial fibrillary acidic protein;
Entrez Gene ID	2670
Protein Refseq	NP_001124491
UniProt ID	Q28115
Chromosome Location	17q21
Pathway	Neural Crest Differentiation; Nuclear signaling by ERBB4; Signal Transduction; Signaling by ERBB4; Spinal Cord Injury;
Function	integrin binding; kinase binding; structural constituent of cytoskeleton;