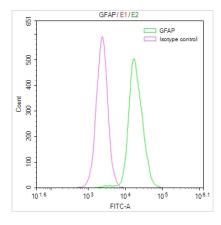




GFAP Recombinant Monoclonal Antibody

Product Code	CSB-RA241995A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P14136
Immunogen	A synthesized peptide derived from Human GFAP
Species Reactivity	Human
Tested Applications	ELISA, FC; Recommended dilution: FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Tags & Cell Markers; Signal transduction? Stem cells
Gene Names	GFAP
Clone No.	14C8

Image



Overlay Peak curve showing Hela cells stained with CSB-RA241995A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific proteinprotein interactions followed by the antibody (1µg/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The GFAP recombinant monoclonal antibody is produced through a comprehensive process that includes in vitro cloning, where genes for both the heavy and light chains of the GFAP antibody are inserted into expression vectors. These recombinant vectors are subsequently transfected into host cells to enable the recombinant expression of the antibody in a cell culture setting. After expression, the GFAP recombinant monoclonal antibody is purified from the supernatant of transfected host cell lines using affinity chromatography. This



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purified antibody demonstrates specific reactivity with the human GFAP protein and exhibits versatility by being suitable for ELISA and FC applications.

GFAP is primarily associated with astrocyte function and is essential for the structural support, morphology, and various roles of astrocytes in the central nervous system. It contributes to the maintenance of the blood-brain barrier, ion and water homeostasis, neurotransmitter uptake, and neuroprotection. Additionally, GFAP expression increases during reactive gliosis in response to CNS injuries or diseases, where it plays a role in glial scar formation and the brain's response to damage.