10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ASPA Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant ASPA.
Catalog # AT1218a

Product Information

Application	WB, IF, E
Primary Accession	P45381
Other Accession	NM_000049
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3C11
Calculated MW	35735

Additional Information

Gene ID	443
Other Names	Aspartoacylase, Aminoacylase-2, ACY-2, ASPA, ACY2, ASP
Target/Specificity	ASPA (NP_000040, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ASPA Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

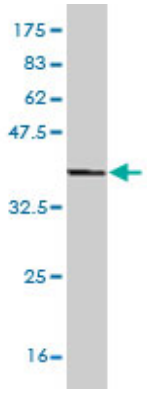
This gene encodes an enzyme that catalyzes the conversion of N-acetyl_L-aspartic acid (NAA) to aspartate and acetate. NAA is abundant in the brain where hydrolysis by aspartoacylase is thought to help maintain white matter. This protein is an NAA scavenger in other tissues. Mutations in this gene cause Canavan disease. Alternatively spliced transcript variants have been found for this gene.

References

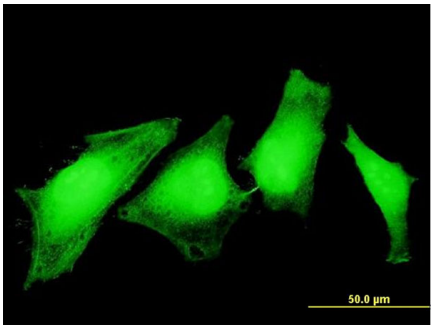
Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.Examination of the mechanism of human brain aspartoacylase through the binding of an intermediate analogue. Le Coq J, et al. Biochemistry, 2008 Mar 18.

PMID 18293939.Carrier frequency of autosomal-recessive disorders in the Ashkenazi Jewish population: should the rationale for mutation choice for screening be reevaluated? Fares F, et al. Prenat Diagn, 2008 Mar. PMID 18264947.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Mutational analysis of aspartoacylase: implications for Canavan disease. Hershfield JR, et al. Brain Res, 2007 May 7. PMID 17391648.

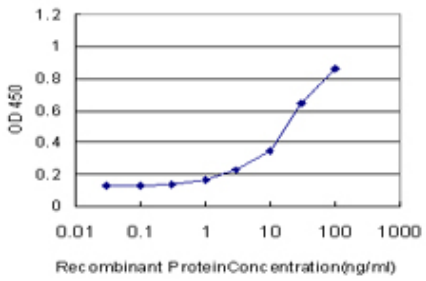
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Immunofluorescence of monoclonal antibody to ASPA on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged ASPA is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.