ASAH1 mouse mAb

Catalog No	BYmab-18116
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ASAH1 ASAH HSD-33 HSD33
Protein Name	Acid ceramidase (AC) (ACDase) (Acid CDase) (EC 3.5.1.23) (Acylsphingosine deacylase) (N-acylsphingosine amidohydrolase) (Putative 32 kDa heart protein) (PHP32) [Cleaved into: Acid ceramidase subunit a
Immunogen	Synthesized peptide derived from human ASAH1
Specificity	This antibody detects endogenous levels of ASAH1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	43kD
Cell Pathway	Lysosome . Secreted . Secretion is extremely low and localization to lysosomes is mannose-6-phosphate receptor-dependent. .; [Isoform 2]: Nucleus . Cytoplasm . A localization to the nucleus and the cytoplasm has also been reported for ASAH1, most probably for isoforms devoid of a signal peptide. .
Tissue Specificity	Bro
Function	Lysosomal ceramidase that hydrolyzes sphingolipid ceramides into sphingosine and free fatty acids at acidic pH . Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation . Has a higher catalytic efficiency towards C12-ceramides versus other ceramides . Also catalyzes the reverse reaction allowing the synthesis of ceramides from fatty acids and sphingosine . For the reverse synthetic reaction, the natural sphingosine D-erythro isomer is more

	efficiently utilized as a substrate compared to D-erythro-dihydrosphingosine and D-erythro-phytosphingosine, while the fatty acids with chain lengths of 12 or 14 carbons are the most efficiently used . Has also an N-acylethanolamine hydrolase activity . By regulating the l
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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