

ASAH2 Rabbit pAb

CatalogNo: YN7666

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 86kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human ASAH2

Specificity This antibody detects endogenous levels of ASAH2 at Human, Mouse, Rat

Target Information

Gene name ASAH2 HNAC1

Protein Name Neutral ceramidase (N-CDase) (NCDase) (Acylsphingosine deacylase 2) (BCDase) (LCDase) (hCD) (N-acylsphingosine amidohydrolase 2) (Non-lysosomal ceramidase) [Cleaved into: Neutral ceramidase soluble form]

Organism	Gene ID	UniProt ID
Human	56624 ;	Q9NR71 ;
Mouse	54447 ;	Q9JHE3 ;
Rat	114104 ;	Q91XT9 ;

Cellular Localization [Neutral ceramidase]: Cell membrane ; Single-pass type II membrane protein . Membrane raft ; Single-pass type II membrane protein . Membrane, caveola ; Single-pass type II membrane protein . Golgi apparatus membrane ; Single-pass type II membrane protein . Mitochondrion . Secreted, extracellular exosome . Enriched in exosomes upon stimulation by cytokine (PubMed:24798654). Enriched in caveolae and lipid rafts (By similarity). The localization to the mitochondrion could not be confirmed (PubMed:15845354). . ; [Neutral ceramidase soluble form]: Secreted .

Tissue specificity Primarily expressed in intestine (PubMed:17334805). Ubiquitously expressed with higher levels in kidney, skeletal muscle and heart (PubMed:10781606). The ubiquitous expression observed for ASAH2 might be an experimental artifact due to the paralog ASAH2B (PubMed:17334805).

Function Plasma membrane ceramidase that hydrolyzes sphingolipid ceramides into sphingosine and free fatty acids at neutral 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 . Also catalyzes the reverse reaction allowing the synthesis of ceramides from fatty acids and sphingosine . Together with sphingomyelinase, participates in the production of sphingosine and sphingosine-1-phosphate from the degradation of sphingomyelin, a sphingolipid enriched in the plasma membrane of cells . Also participates in the hydrolysis of ceramides from the extracellular milieu allowing the production of sphingosine-1-phosphate inside and outside cells (By similarity). This is the case for instance with the digestion of dietary sphingolipids in the intestinal tract (By similarity).

| Validation Data

| Contact information

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