

## 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. AA range:280-350

**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	<a href="#">56624</a> ;	<a href="#">Q9NR71</a> ;
Mouse	<a href="#">54447</a> ;	<a href="#">Q9JHE3</a> ;
Rat	<a href="#">114104</a> ;	<a href="#">Q91XT9</a> ;

**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).

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## | Validation Data

## | Contact information

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