

SAMD8 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12035a**Specification**

SAMD8 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O96LT4
Other Accession	O9DA37 , NP_653261.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	48321
Antigen Region	38-67

SAMD8 Antibody (N-term) - Additional Information**Gene ID** 142891**Other Names**

Sphingomyelin synthase-related protein 1, SMSr, 278-, Ceramide phosphoethanolamine synthase, CPE synthase, Sterile alpha motif domain-containing protein 8, SAM domain-containing protein 8, SAMD8

Target/Specificity

This SAMD8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-67 amino acids from the N-terminal region of human SAMD8.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SAMD8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SAMD8 Antibody (N-term) - Protein Information**Name** SAMD8 ([HGNC:26320](#))

Function Synthesizes sphingolipids through transfer of a phosphatidyl head group from a glycerophospholipid on to the primary hydroxyl of a ceramide in the lumen of the endoplasmic reticulum (PubMed:[19506037](#), PubMed:[38388831](#)). Catalyzes the synthesis of ceramide phosphoethanolamines (CPEs) (such as N-acylsphing-4-enine 1- phosphoethanolamine) by transferring phosphoethanolamine head group, which is smaller and more hydrophilic than the phosphocholine (PC) headgroup transferred in the canonical sphingomyelin synthesis (SMS) reaction by SMS1 or SMS2, from a phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine, PE) to a ceramide (such as N- acylsphing-4-enine) (PubMed:[19506037](#), PubMed:[38388831](#)). The larger PC prevents an efficient fit in the enzyme's catalytic pocket, leading to little or no SMS activity (PubMed:[19506037](#), PubMed:[38388831](#)). In vitro, in the absence of ceramide, it has PLC activity with preference for phosphatidylinositol and phosphatidic acid, but also hydrolyzes phosphatidylethanolamine (PubMed:[33621517](#), PubMed:[38388831](#)).

Cellular Location

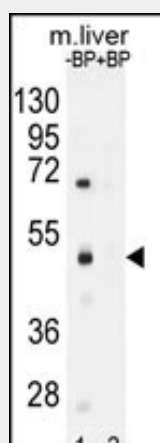
Endoplasmic reticulum membrane; Multi-pass membrane protein

SAMD8 Antibody (N-term) - Protocols

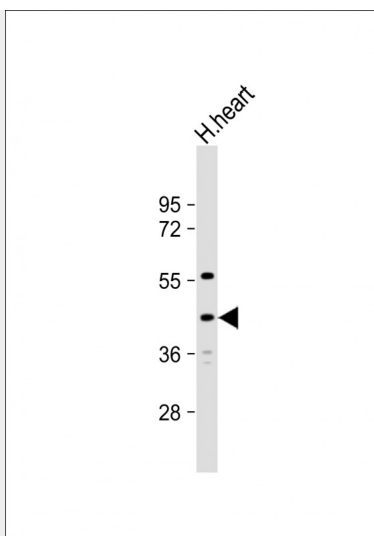
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SAMD8 Antibody (N-term) - Images



Western blot analysis of SAMD8 Antibody (N-term) Pab (Cat. #AP12035a) pre-incubated without (lane 1) and with (lane 2) blocking peptide in mouse liver tissue lysate. SAMD8 Antibody (N-term) (arrow) was detected using the purified Pab.



Anti-SAMD8 Antibody (N-term) at 1:1000 dilution + human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

SAMD8 Antibody (N-term) - References

Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)
Huitema, K., et al. EMBO J. 23(1):33-44(2004)