

**ASM3A Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4977b****Specification**

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**ASM3A Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [O92484](#)  
Other Accession [NP\\_006705](#)

**ASM3A Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 10924

**Other Names**

Acid sphingomyelinase-like phosphodiesterase 3a, ASM-like phosphodiesterase 3a, 314-, SMPDL3A, ASML3A

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ASM3A Antibody (C-term) Blocking Peptide - Protein Information**

**Name** SMPDL3A {ECO:0000303|PubMed:25288789, ECO:0000312|HGNC:HGNC:17389}

**Function**

Cyclic-nucleotide phosphodiesterase that acts as a negative regulator of innate immunity by mediating degradation of 2',3'-cGAMP, thereby inhibiting the cGAS-STING signaling (PubMed:<a href="http://www.uniprot.org/citations/37890481" target="\_blank">37890481</a>). Specifically linearizes 2',3'-cGAMP into 2'5'-bond pGpA and further hydrolyzes pGpA to produce GpA (PubMed:<a href="http://www.uniprot.org/citations/37890481" target="\_blank">37890481</a>). Also has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP (PubMed:<a href="http://www.uniprot.org/citations/25288789" target="\_blank">25288789</a>, PubMed:<a href="http://www.uniprot.org/citations/26783088" target="\_blank">26783088</a>). Has in vitro activity with p-nitrophenyl-TMP (PubMed:<a href="http://www.uniprot.org/citations/25288789" target="\_blank">25288789</a>). Has lower activity with nucleoside diphosphates, and no activity with nucleoside monophosphates (PubMed:<a href="http://www.uniprot.org/citations/25288789" target="\_blank">25288789</a>, PubMed:<a href="http://www.uniprot.org/citations/28104755" target="\_blank">28104755</a>, PubMed:<a href="http://www.uniprot.org/citations/26783088" target="\_blank">26783088</a>). Has in vitro activity with CDP-choline, giving rise to CMP and phosphocholine. Has in vitro activity with CDP-ethanolamine (PubMed:<a href="http://www.uniprot.org/citations/26783088" target="\_blank">26783088</a>).

target="\_blank">26783088</a>). Does not have sphingomyelin phosphodiesterase activity (PubMed:<a href="http://www.uniprot.org/citations/25288789" target="\_blank">25288789</a>, PubMed:<a href="http://www.uniprot.org/citations/26783088" target="\_blank">26783088</a>).

**Cellular Location**

Secreted

**Tissue Location**

Detected in blood serum. Detected in macrophages (at protein level).

**ASM3A Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ASM3A Antibody (C-term) Blocking Peptide - Images****ASM3A Antibody (C-term) Blocking Peptide - References**

Mungall, A.J., et al. Nature 425(6960):805-811(2003)Wright, K.O., et al. J. Urol. 168(6):2645-2649(2002)