

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

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:37890481). Specifically linearizes 2',3'-cGAMP into 2'5'-bond pGpA and further hydrolyzes pGpA to produce GpA (PubMed:37890481). Also has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP (PubMed:25288789, PubMed:26783088). Has in vitro activity with p-nitrophenyl-TMP (PubMed:25288789). Has lower activity with nucleoside diphosphates, and no activity with nucleoside monophosphates (PubMed:25288789, PubMed:28104755, PubMed:26783088). Has in vitro activity with CDP-choline, giving rise to CMP and phosphocholine. Has in vitro activity with CDP-ethanolamine (PubMed:26783088).

target="_blank">26783088). Does not have sphingomyelin phosphodiesterase activity (PubMed:25288789, PubMed:26783088).

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)