

Smpdl3a antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # Al13391

Specification

Smpdl3a antibody - N-terminal region - Product Information

Application WB
Primary Accession P70158

Other Accession <u>NM 020561</u>, <u>NP 065586</u>

Reactivity Human, Mouse, Rat, Rabbit, Horse, Bovine,

Guinea Pig, Dog

Predicted Mouse, Rabbit, Pig, Horse, Guinea Pig, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 49kDa KDa

Smpdl3a antibody - N-terminal region - Additional Information

Gene ID 57319

Alias Symbol 0610010C24Rik, AI529588, ASM3A, ASML3,

ASML3A

Other Names

Acid sphingomyelinase-like phosphodiesterase 3a, ASM-like phosphodiesterase 3a, 3.1.4.-, Smpdl3a, Asml3a

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Smpdl3a antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Smpdl3a antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Smpdl3a antibody - N-terminal region - Protein Information

Name Smpdl3a {ECO:0000303|PubMed:25288789, ECO:0000312|MGI:MGI:1931437}

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 (By similarity). Also has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP (PubMed:<a href="http://www.uniprot.org/citations/26792860"





target="_blank">26792860). Has in vitro activity with p- nitrophenyl-TMP (By similarity). Has lower activity with nucleoside diphosphates, and no activity with nucleoside monophosphates (By similarity). Has in vitro activity with CDP-choline, giving rise to CMP and phosphocholine (By similarity). Has in vitro activity with CDP- ethanolamine (By similarity). Does not have sphingomyelin phosphodiesterase activity (By similarity).

Cellular Location Secreted

Tissue Location

Detected in blood serum (at protein level).

Smpdl3a antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Smpdl3a antibody - N-terminal region - Images



WB Suggested Anti-Smpdl3a Antibody Titration: 1.0 μg/ml

Positive Control: Mouse Heart

Smpdl3a antibody - N-terminal region - References

Hofmann K., et al. Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases. Carninci P., et al. Science 309:1559-1563(2005).

Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.