

# Smpdl3a antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI13391

## Product Information

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Application       | WB                                                                   |
| Primary Accession | <a href="#">P70158</a>                                               |
| Other Accession   | <a href="#">NM_020561</a> , <a href="#">NP_065586</a>                |
| Reactivity        | Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine |
| Predicted         | Mouse, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse                |
| Host              | Rabbit                                                               |
| Clonality         | Polyclonal                                                           |
| Calculated MW     | 49858                                                                |

## 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.                                                                           |

## Protein Information

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| 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: <a href="#">37890481</a> ). 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="#">26792860</a> ). 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).

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|--------------------------|---------------------------------------------|
| <b>Cellular Location</b> | Secreted                                    |
| <b>Tissue Location</b>   | Detected in blood serum (at protein level). |

## References

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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.

## Images

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WB Suggested Anti-Smpdl3a Antibody Titration: 1.0 µg/ml  
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.