

Rabbit SMPD1 / Acid Sphingomyelinase Polyclonal Antibody | anti-SMPD1 antibody

Rabbit Polyclonal to Human SMPD1 / Acid Sphingomyelinase

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52523	Rabbit	Human Predicted Reactivity: Cow	Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry

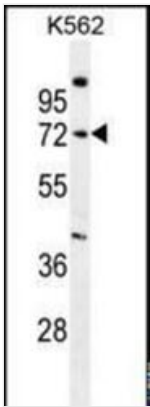
PRODUCT SYNONYMS

SMPD1 / Acid Sphingomyelinase; Polyclonal Antibody; Rabbit Polyclonal to Human SMPD1 / Acid Sphingomyelinase; Anti-SMPD1 / Acid Sphingomyelinase Antibody (aa391-419) IHC-plus; SMPD1; Acid sphingomyelinase; ASM; NPD; ASMASE; Human SMPD1; Acid Sphingomyelinase; anti-SMPD1 antibody

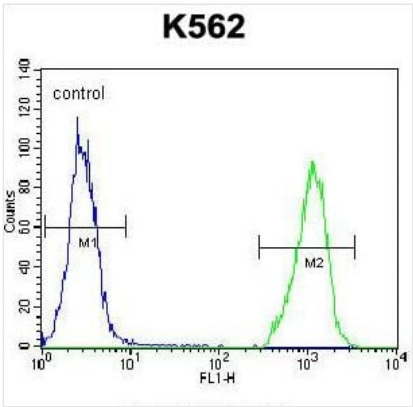
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Cow
Clonality	Polyclonal
Specificity	This SMPD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-419 amino acids from the C-terminal region of human SMPD1.
Purity/Purification	Protein A purified
Form/Format	PBS, 0.09% sodium azide
Concentration	0.5mg/mL (varies by lot)
Sequence Length	631
Applicable Applications for anti-SMPD1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry)
Target	Human SMPD1 / Acid Sphingomyelinase
Immunogen Species	SMPD1/Acid Sphingomyelinase antibody was raised against Human.
Epitope	aa391-419
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

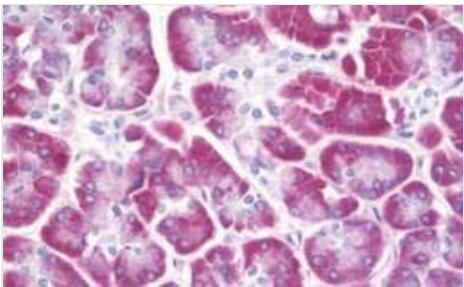
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.



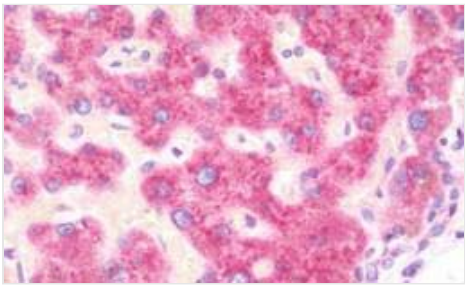
WB (Western Blot)
SMPD1 Antibody (C-term) Western blot of K562 cell line lysates (35 ug/lane). This demonstrates the SMPD1 antibody detected the SMPD1 protein (arrow).



FCM/FACS (Flow Cytometry)
SMPD1 Antibody (C-term) flow cytometry of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Anti-SMPD1 / Acid Sphingomyelinase antibody IHC staining of human pancreas. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



IHC (Immunohistochemistry)
Anti-SMPD1 / Acid Sphingomyelinase antibody IHC staining of human liver. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:100.

ADDITIONAL INFORMATION

Product Categories/Family for anti-SMPD1 antibody	Family: Phosphodiesterase - Other
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56117840
NCBI GeneID	6609
NCBI Accession #	NP_000534.3
NCBI GenBank Nucleotide #	NM_000543.4
UniProt Accession #	P17405; P17406; Q13811; Q16837; Q16841; A8K8M3; E9PKS3
NCBI Official Full Name	sphingomyelin phosphodiesterase isoform 1
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 1, acid lysosomal
NCBI Official Symbol	SMPD1
NCBI Official Synonym Symbols	ASM; NPD; ASMASE
NCBI Protein Information	sphingomyelin phosphodiesterase; acid sphingomyelinase
UniProt Protein Name	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD1

UniProt Synonym Gene Names	ASM; aSMase
UniProt Entry Name	ASM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smpd1-acid-sphingomyelinase-antibody-flow-cytometry-western-blot-immunohistochemistry-elisa/52523>