

Human Acid Sphingomyelinase ELISA Kit | ASM elisa kit

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CATALOG #
AAA86801

REACTIVITY
Human

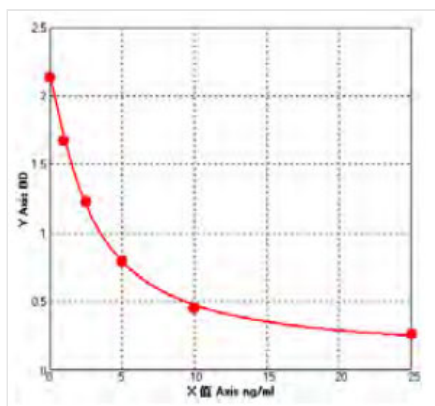
PRODUCT SYNONYMS

Acid Sphingomyelinase; Human Acid Sphingomyelinase ELISA Kit; ASM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ASM. No significant cross-reactivity or interference between ASM and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ASM and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ASM elisa kit	Intended Uses: This ASM ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ASM. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: ASM ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ASM antibody and an ASM-HRP conjugate. The assay sample and buffer are incubated together with ASM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ASM concentration since ASM from samples and ASM-HRP conjugate compete for the anti-ASM antibody binding site. Since the number of sites is limited, as more sites are occupied by ASM from the sample, fewer sites are left to bind ASM-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ASM concentration in each sample is interpolated from this standard curve.
Product Categories/Family for ASM elisa kit	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	179095
NCBI GeneID	6609
Molecular Weight	69,624 Da
NCBI Official Full Name	acid sphingomyelinase
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.