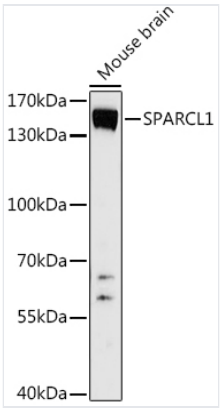
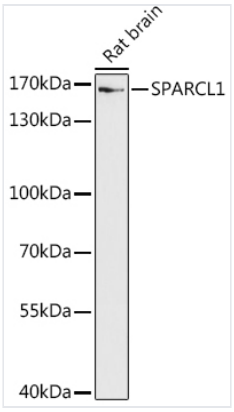
SPARCL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPARCL1, Polyclonal Antibody
Full Product Name	SPARCL1 Rabbit pAb
Product Gene Name	anti-SPARCL1 antibody
Product Synonym Names	SC1; MAST9; PIG33; MAST 9
Immunogen Sequence	SIYNASLKKY FLITFFLFSF AIGFYLLLKG LGVDLLWTLE KAQRWCEQPE WVHIDTTPFA SLLKNLGTLF GLGLALNSSM YRESCKGKLS KWLPFRLSSI V
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.01% thiomersal, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	40,484 Da
OMIM	232200
3D Structure	ModBase 3D Structure for P35575
Positive Samples	Mouse brain, Rat brain
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 17-300 of human SPARCL1 (NP_004675.3).
Cellular Location	endoplasmic reticulum lumen, extracellular region, extracellular space, glutamatergic synapse
Product Categories/Family for anti-SPARCL1 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SPARCL1 antibody	Western Blot (WB)
Application Notes for anti-SPARCL1 antibody	WB: 1:500-1:2000
Related Product Information for anti-SPARCL1 antibody	Predicted to enable calcium ion binding activity; collagen binding activity; and extracellular matrix binding activity. Predicted to be involved in anatomical structure development and regulation of synapse organization. Located in extracellular space.
Other Notes	Small volumes of anti-SPARCL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPARCL1 purchase	MBS9144879 is an antibody targeting SPARCL1. Also known as SPARCL1 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-SPARCL1 antibody
Western blot analysis of extracts of Mouse brain, using SPARCL1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.



Western Blot (WB) of anti-SPARCL1 antibody
Western blot analysis of extracts of Rat brain, using SPARCL1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPARCL1. It may not necessarily be applicable to this product.

NCBI GI #	206729864
NCBI GeneID	2538
NCBI Accession #	P35575.2
UniProt Primary Accession #	P35575
UniProt Secondary Accession #	A1L4C0; B4E1C3; K7EL82
UniProt Related Accession #	P35575
NCBI Official Full Name	Glucose-6-phosphatase
NCBI Official Synonym Full Names	glucose-6-phosphatase, catalytic subunit
NCBI Official Symbol	G6PC
NCBI Official Synonym Symbols	G6PT; GSD1; G6PC1; GSD1a
UniProt Protein Name	Glucose-6-phosphatase
UniProt Synonym Protein Names	Glucose-6-phosphatase alpha
Protein Family	SPARC-like protein
UniProt Gene Name	G6PC
UniProt Synonym Gene Names	G6PT; G-6-Pase; G6Pase
UniProt Entry Name	G6PC_HUMAN
NCBI Protein Information	glucose-6-phosphatase; G6Pase; G-6-Pase; G6Pase-alpha; glucose-6-phosphatase alpha
NCBI Summary for SPARCL1	Glucose-6-phosphatase (G6Pase) is a multi-subunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for G6P, inorganic phosphate, and glucose. This gene (G6PC) is one of the three glucose-6-phosphatase catalytic-subunit-encoding genes in human: G6PC, G6PC2 and G6PC3. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1). This disease, also known as von Gierke disease, is a metabolic disorder characterized by severe hypoglycemia associated with the accumulation of glycogen and fat in the liver and kidneys.[provided by RefSeq, Feb 2011]

UniProt Comments for SPARCL1	G6PC: Hydrolyzes glucose-6-phosphate to glucose in the endoplasmic reticulum. Forms with the glucose-6-phosphate transporter (SLC37A4/G6PT) the complex responsible for glucose production through glycogenolysis and gluconeogenesis. Hence, it is the key enzyme in homeostatic regulation of blood glucose levels. Defects in G6PC are the cause of glycogen storage disease type 1A (GSD1A). A metabolic disorder characterized by impairment of terminal steps of glycogenolysis and gluconeogenesis. Patients manifest a wide range of clinical symptoms and biochemical abnormalities, including hypoglycemia, severe hepatomegaly due to excessive accumulation of glycogen, kidney enlargement, growth retardation, lactic acidemia, hyperlipidemia, and hyperuricemia. Belongs to the glucose-6-phosphatase family. Protein type: EC 3.1.3.9; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - galactose; Endoplasmic reticulum; Carbohydrate Metabolism - starch and sucrose; Transporter; Transporter, SLC family; Membrane protein, multi-pass; Phosphatase (non-protein); Membrane protein, integral Chromosomal Location of Human Ortholog: 17q21 Cellular Component: endoplasmic reticulum membrane; integral to membrane; integral to endoplasmic reticulum membrane Molecular Function: glucose-6-phosphatase activity; phosphotransferase activity, alcohol group as acceptor; phosphate binding Biological Process: response to food; glycogen metabolic process; steroid metabolic process; phosphorylated carbohydrate dephosphorylation; glycogen catabolic process; multicellular organism growth; glucose 6-phosphate metabolic process; pathogenesis; glucose transport; glucose homeostasis; gluconeogenesis; cholesterol homeostasis; urate metabolic process; triacylglycerol metabolic process; regulation of gene expression; glucose-6-phosphate transport; hexose transport; carbohydrate metabolic process; transmembrane transport Disease: Glycogen Storage Disease Ia
Research Articles on SPARCL1	**1.** The spectrum of mutations in the G6PC gene.
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