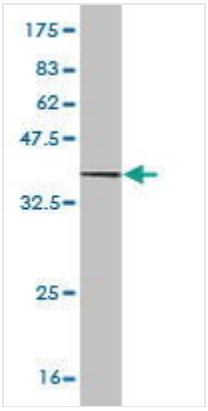
SI Antibody – Mouse Monoclonal

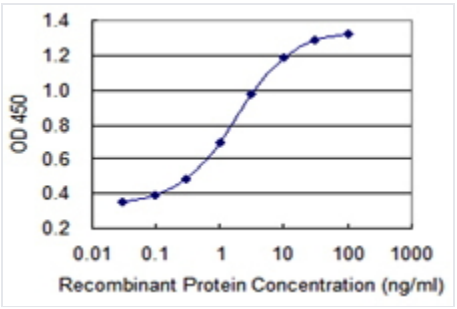
PRODUCT OVERVIEW

Product Name	SI, Monoclonal Antibody
Full Product Name	SI (Sucrase-isomaltase, Intestinal, MGC131621, MGC131622) APC
Product Gene Name	anti-SI antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1A8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SI.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	209kDa
3D Structure	ModBase 3D Structure for P14410
Immunogen	Partial recombinant corresponding to aa1728-1827 from human SI (NP_001032) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DGESIDTYERDLYLSVQFNLNQTTLTSTILKRGYINKSETRLGSLHVWGKGTTPVNAVTLTYNGNKNSLPFNEDTTNMILRIDLTTHNVTLEEPIEINW*
Conjugate	APC
Product Categories/Family for anti-SI antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-SI antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-SI antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SI antibody	Plays an important role in the final stage of carbohydrate digestion. Isomaltase activity is specific for both alpha-1,4- and alpha-1,6-oligosaccharides.

Other Notes	Small volumes of anti-SI 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 SI purchase	MBS6139050 is an antibody targeting SI. Also known as SI (Sucrase-isomaltase, Intestinal, MGC131621, MGC131622) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-SI antibody
Western Blot detection against Immunogen (37kD).



Testing Data of anti-SI antibody
Detection limit for recombinant GST tagged SI is 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	157364974
NCBI GeneID	6476
NCBI Accession #	NP_001032
UniProt Primary Accession #	P14410
UniProt Related Accession #	P14410
GenBank Nucleotide #	NM_001041
NCBI Official Full Name	sucrase-isomaltase, intestinal
NCBI Official Synonym Full Names	sucrase-isomaltase
NCBI Official Symbol	SI
UniProt Protein Name	Sucrase-isomaltase, intestinal
Protein Family	Sucrase-isomaltase
UniProt Gene Name	SI
NCBI Protein Information	sucrase-isomaltase, intestinal
NCBI Summary for SI	This gene encodes a sucrase-isomaltase enzyme that is expressed in the intestinal brush border. The encoded protein is synthesized as a precursor protein that is cleaved by pancreatic proteases into two enzymatic subunits sucrase and isomaltase. These two subunits heterodimerize to form the sucrose-isomaltase complex. This complex is essential for the digestion of dietary carbohydrates including starch, sucrose and isomaltose. Mutations in this gene are the cause of congenital sucrase-isomaltase deficiency.[provided by RefSeq, Apr 2010]
Research Articles on SI	**1.** Three biosynthetic phenotypes for the novel SI mutations were identified. The first biosynthetic phenotype was defined by mutants that are intracellularly transported in a fashion similar to wild type SI and with normal, but varying, levels of enzymatic activity. The second biosynthetic phenotype was defined by mutants with delayed maturation and trafficking kinetics and reduced activity. The third is inactive.

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