ARG42958
anti-SI / Sucrase isomaltase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SI / Sucrase isomaltase
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SI / Sucrase isomaltase
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human SI / Sucrase isomaltase. (FQLSRWNYKSLDVVKEVVRRNREAGIPFDTQVTDID)
Conjugation	Un-conjugated
Alternate Names	EC 3.2.1.10; EC 3.2.1.48; Sucrase-isomaltase, intestinal

Application Instructions

Application table

Application	Dilution
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 210 kDa

Properties

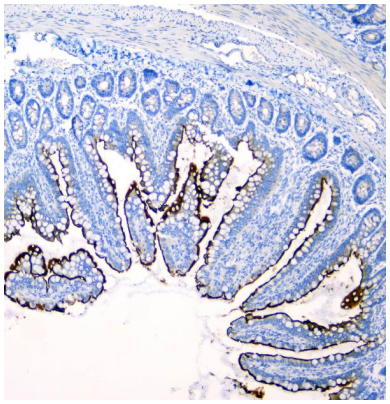
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

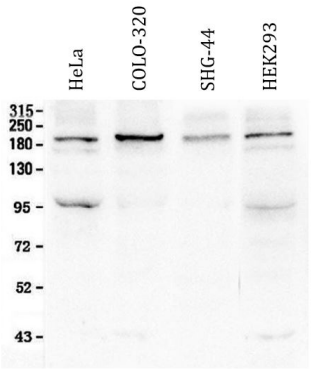
Gene Symbol	SI
Gene Full Name	sucrase-isomaltase (alpha-glucosidase)
Background	This gene encodes a sucrase-isomaltase enzyme that is expressed in the intestinal brush border. The encoded protein is synthesized as a precursor protein that is cleaved by pancreatic proteases into two enzymatic subunits 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]
Function	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. [UniProt]
Calculated Mw	209 kDa
PTM	The precursor is proteolytically cleaved when exposed to pancreatic proteases in the intestinal lumen. Sulfated. [UniProt]
Cellular Localization	Apical cell membrane; Single-pass type II membrane protein. Note=Brush border. [UniProt]

Images



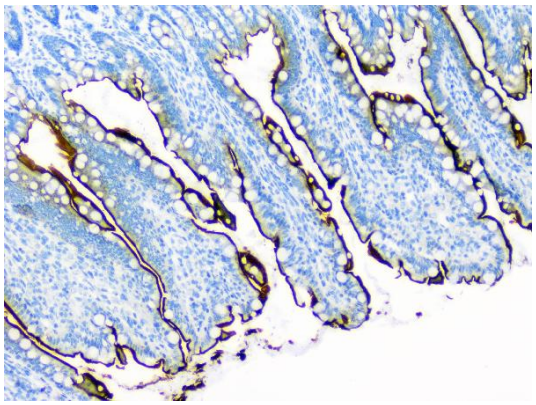
ARG42958 anti-SI / Sucrase isomaltase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42958 anti-SI / Sucrase isomaltase antibody at 1 µg/ml dilution, overnight at 4°C.



ARG42958 anti-SI / Sucrase isomaltase antibody WB image

Western blot: 50 µg of sample under reducing conditions. HeLa, COLO-320, SHG-44 and HEK293 whole cell lysates stained with ARG42958 anti-SI / Sucrase isomaltase antibody at 0.5 µg/ml dilution, overnight at 4°C.



ARG42958 anti-SI / Sucrase isomaltase antibody IHC-P image

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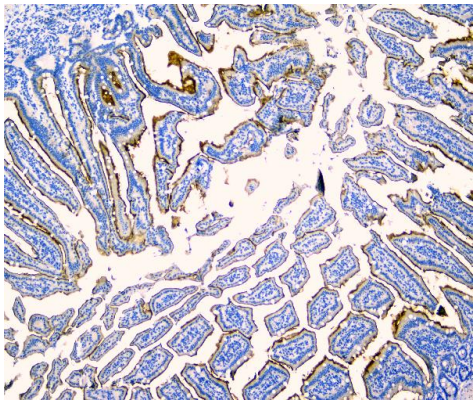
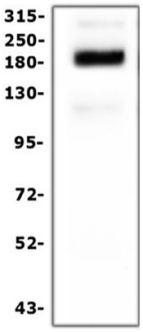


ARG42958 anti-SI / Sucrase isomaltase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42958 anti-SI / Sucrase isomaltase antibody at 1 µg/ml dilution, overnight at 4°C.



Rat intestine

ARG42958 anti-SI / Sucrase isomaltase antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat intestine lysate stained with ARG42958 anti-SI / Sucrase isomaltase antibody at 0.5 µg/ml dilution, overnight at 4°C.