Product datasheet

Anti-SGLT1 antibody ab14686

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Overview

Product name  Anti-SGLT1 antibody
Description  Rabbit polyclonal to SGLT1
Host species  Rabbit
Tested applications  Suitable for: WB, Dot blot, ELISA, IP, IHC-P
Species reactivity  Reacts with: Mouse, Rat, Human, Pig
Immunogen  Synthetic peptide, corresponding to amino acids 402-422 of Human SGLT1
Positive control  WB: SGLT1 protein (ab99447).
General notes  A blocking peptide for this product is available as ab190911.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.02% Sodium azide
Constituents: Tris glycine, 0.5% BSA, HEPES, 30% Glycerol
Purity  Immunogen affinity purified
Purification notes  Purified on antigen sepharose affinity column
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab14686 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>WB</td>
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<td>1/500 - 1/1000. Detects a band of approximately 74 kDa (predicted molecular weight: 73 kDa). Can be blocked with SGLT1 peptide (ab190911).</td>
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Function
Actively transports glucose into cells by Na(+) cotransport with a Na(+) to glucose coupling ratio of 2:1. Efficient substrate transport in mammalian kidney is provided by the concerted action of a low affinity high capacity and a high affinity low capacity Na(+)/glucose cotransporter arranged in series along kidney proximal tubules.

Tissue specificity
Expressed mainly in intestine and kidney.

Involvement in disease
Congenital glucose/galactose malabsorption

Sequence similarities
Belongs to the sodium:solute symporter (SSF) (TC 2.A.21) family.

Post-translational modifications
N-glycosylation is not necessary for the cotransporter function.

Cellular localization
Membrane.

Images

Western blot - Anti-SGLT1 antibody (ab14686)
Immunohistochemistry - Anti-SGLT1 antibody (ab14686). Mouse Intestine - SGLT1, Primary Antibody: SGLT-112AP; 1:50 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain.

Immunohistochemistry - Anti-SGLT1 antibody (ab14686). Baboon Small Intestine - SGLT1, Primary Antibody: SGLT-101AP; 1:50 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification. FFPE section
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGLT1 antibody (ab14686). Baboon Small Intestine - SGLT1, Primary Antibody: SGLT-101AP; 1:50 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 10X magnification. FFPE section

Anti-SGLT1 antibody (ab14686) at 1/500 dilution

Predicted band size: 73 kDa

Observed band size: 72 kDa

why is the actual band size different from the predicted?

The positive control for Sglt1 was purified rat jejunal brush border membranes solubilized in Solo buffer at approximately 1.5 mg per ml. A 65 ul sample was applied on 8.5% gel, the approximate MWt of rat Sglt varies between MW of 70-74kda depending upon the concentration of acrylamide in the gel. The blot was developed with colorimetric development using alkaline phosphatase conjugate.

Immunohistochemical analysis of formalin fixed, paraffin embedded porcine duodenum tissue from fasted animals. SGLT1 is stained with ab14686 at 1/50 dilution.

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