Product datasheet

Anti-SGLT2/SLC5A2 Antibody

Catalog Number: *A03748-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-SGLT2/SLC5A2 Antibody
Gene Name	SLC5A2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human SGLT2/SLC5A2 recombinant protein (Position: A15-N656). Human SGLT2/SLC5A2 shares 91.3% and 91.4% amino acid (aa) sequence identity with mouse and rat SGLT2/SLC5A2, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	73 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

The sodium/glucose cotransporter 2 (SGLT2) is a protein that in humans is encoded by the SLC5A2 gene. It is mapped to 16p11.2. This gene encodes a member of the sodium glucose cotransporter family which are sodium-dependent glucose transport proteins. The encoded protein is the major cotransporter involved in glucose reabsorption in the kidney. Mutations in this gene are associated with renal glucosuria. Two transcript variants, one protein-coding and one

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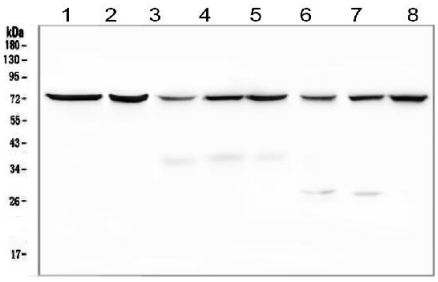
not, have been found for this gene.

Reference

Anti-SGLT2/SLC5A2 Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of SGLT2/SLC5A2 using anti-SGLT2/SLC5A2 antibody (A03748-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HL-60 whole cell lysates,
Lane 2: human THP-1 whole cell lysates,
Lane 3: rat kidney tissue lysates,
Lane 4: rat spleen tissue lysates,
Lane 5: rat lung tissue lysates,
Lane 6: mouse kidney tissue lysates,
Lane 7: mouse spleen tissue lysates,
Lane 8: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SGLT2/SLC5A2 antigen affinity purified polyclonal antibody (A03748-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SGLT2/SLC5A2 at approximately 73 kDa. The expected band size for SGLT2/SLC5A2 is at 73 kDa.

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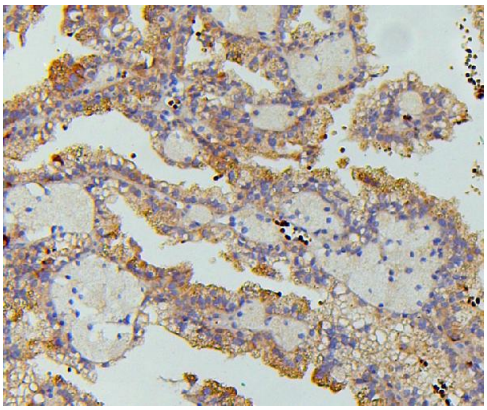
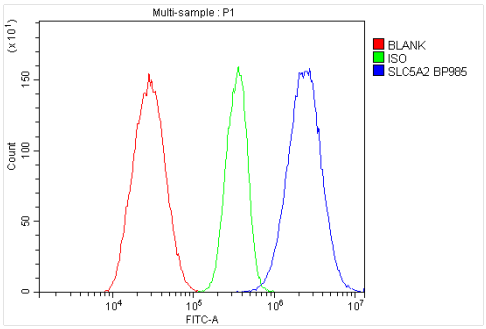


IHC analysis of SGLT2/SLC5A2 using anti-SGLT2/SLC5A2 antibody (A03748-1).
SGLT2/SLC5A2 was detected in a paraffin-embedded section of human renal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-SGLT2/SLC5A2 Antibody (A03748-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of HepG2 cells using anti- SLC5A2 antibody (A03748-1).
Overlay histogram showing HepG2 cells stained with A03748-1 (Blue line).. And then incubated with rabbit anti-SLC5A2 Antibody (A03748-1, 1:100) for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.