10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

SGLT-2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10523

Specification

SGLT-2 Antibody - Product Information

Application	**WB**
Primary Accession	Q923I7
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**73008**

SGLT-2 Antibody - Additional Information

Gene ID 246787

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Other applications have not been determined. The antibody detects 74 kDa SGLT-2 from human, mouse, and rat origins. Reactivity to other species has not been determined. A ~55 kDa and a ~45 kDa bands can also been detected, representing the SGLT-2 cleavage fragments.**

Other Names
SGLT 2 , SGLT2 , SLC5A2 , SLC5A 2 ,

Target/Specificity
SGLT-2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) protein A affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

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Background Descriptions

Precautions
SGLT-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SGLT-2 Antibody - Protein Information

Name Slc5a2

Function
Electrogenic Na(+)-coupled sugar simporter that actively transports D-glucose at the plasma membrane, with a Na(+) to sugar coupling ratio of 1:1. Transporter activity is driven by a transmembrane Na(+) electrochemical gradient set by the Na(+)/K(+) pump (By similarity). Has a primary role in D-glucose reabsorption from glomerular filtrate across the brush border of the early proximal tubules of the kidney (PubMed:20616166).

Cellular Location
Apical cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in epithelial cells of early proximal tubules (at protein level).

SGLT-2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SGLT-2 Antibody - Images

SGLT-2 Antibody - Background

Sodium glucose co transporters (SGLTs) are located in the brush-border membrane, but transported out of the cell across the basolateral membranes by a facilitated s µgar transporter (GLUT). At least three members of SGLTs (SGLT 1-3) have been cloned and characterized. SGLTs transport a methyl-D-glucoside (a-MDG), a non-metabolized model substrate, in Na-dependent manner. SGLT-1 does not discriminate a-MDG, glucose, and galactose. SGLT2/3 do not transport D-galactose efficiently.