

SGLT2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51862

Product Information

Application	WB
Primary Accession	P31639
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72897

Additional Information

Gene ID	6524
Other Names	Sodium/glucose cotransporter 2, Na(+)/glucose cotransporter 2, Low affinity sodium-glucose cotransporter, Solute carrier family 5 member 2, SLC5A2, SGLT2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SGLT2. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SLC5A2 {ECO:0000303 PubMed:14614622}
Function	Electrogenic Na(+)-coupled sugar symporter that actively transports D-glucose at the plasma membrane, with a Na(+) to sugar coupling ratio of 1:1 (PubMed: 20980548 , PubMed: 28592437 , PubMed: 34880493 , PubMed: 37217492 , PubMed: 38057552). Transporter activity is driven by a transmembrane Na(+) electrochemical gradient set by the Na(+)/K(+) pump (PubMed: 20980548 , PubMed: 28592437 , PubMed: 34880493). Unlike SLC5A1/SGLT1, requires the auxiliary protein PDZK1IP1/MAP17 for full transporter activity (PubMed: 37217492). Has a primary role in D-glucose reabsorption from glomerular filtrate across the brush border of the early proximal tubules of the kidney (By similarity).
Cellular Location	Apical cell membrane; Multi-pass membrane protein

Background

Sodium-dependent glucose transporter. Has a Na(+) to glucose coupling ratio of 1:1.

References

Wells R.G.,et al.Am. J. Physiol. 263:F459-F465(1992).

Calado J.,et al.Hum. Genet. 114:314-316(2004).

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