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[Primary Antibody]

Rabbit Anti-GLCE antibody

Catalog Number: SL16253R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GLCE
Immunogen:	KLH conjugated synthetic peptide derived from human GLCE: 541-617/617
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Dog, Pig, Cow, Sheep)
Predicted MW.:	70kDa
Subcellular Location:	cytoplasmic
Background:	GLCE (glucuronic acid epimerase), also known as HSEPI (heparin/heparan sulfate:glucuronic acid C5-epimerase) or D-glucuronyl C5-epimerase, is a single-pass type II membrane protein that is part of the golgi apparatus and, through its enzymatic activity, is essential for proper biological function of heparan sulphate (HS). GLCE epimerizes D-glucuronic acid into L-iduronic acid of HS, thus changing the specificity of HS and allowing it to bind to cytokines and growth factors. GLCE is a target of the beta-catenin–TCF4 transactivation complex; an essential component in the Wnt/APC/beta-catenin signaling pathway that is upregulated in colon carcinoma cells. The enzymatic activity of GLCE is enhanced by overexpression of beta-

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	catenin–TCF4, suggesting a possible role for GLCE in the dysregulation of proper signaling pathways; a dysregulation that leads to the development of human epithelial tumors. **Function:** Glucuronic Acid Epimerase (GLCE) is responsible for epimerization of D-glucuronic acid (GlcA) to L-iduronic acid (IdoA) of Heparan sulfate (HS), which endows the nascent polysaccharide chain with the ability to bind growth factors and cytokines (Ghiselli and Agrawal, 2005 [PubMed 15853773]). **Subunit:** Interacts with HS2ST1 (By similarity). **Subcellular Location:** Golgi apparatus membrane; Single-pass type II membrane protein **Similarity:** Belongs to the D-glucuronyl C5-epimerase family. **Database links:** **Entrez Gene:** 26035 Human **Entrez Gene:** 93683 Mouse Omim: 612134 Human **SwissProt:** O94923 Human **SwissProt:** Q9EPS3 Mouse

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