

GLCE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56192

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<u>O94923</u>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70101
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLCE
Epitope Specificity	541-617/617
Isotype	IgG
Purity	affinity purified by Protein A
Buffer SUBCELLULAR LOCATION SIMILARITY SUBUNIT Important Note Background Descriptions	 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Golgi apparatus membrane; Single-pass type II membrane protein Belongs to the D-glucuronyl C5-epimerase family. Interacts with HS2ST1 (By similarity). This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 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-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.

Additional Information

Gene ID	26035
Other Names	D-glucuronyl C5-epimerase, 5.1.3.17, Heparan sulfate C5-epimerase, Hsepi, Heparin/heparan sulfate:glucuronic acid C5-epimerase, Heparosan-N-sulfate-glucuronate 5-epimerase, GLCE, KIAA0836 {ECO:0000312 EMBL:BAA74859.1}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50 0,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information	
Name	GLCE
Synonyms	KIAA0836 {ECO:0000312 EMBL:BAA74859.1}
Function	Converts D-glucuronic acid residues adjacent to N-sulfate sugar residues to L-iduronic acid residues, both in maturing heparan sulfate (HS) and heparin chains. This is important for further modifications that determine the specificity of interactions between these glycosaminoglycans and proteins.
Cellular Location	Golgi apparatus membrane {ECO:0000250 UniProtKB:Q9EPS3}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:Q9EPS3}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.