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HS2ST1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7648a

Product Information

Application	WB, E
Primary Accession	Q7LGA3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24871
Calculated MW	41881
Antigen Region	16-45

Additional Information

Gene ID	9653
Other Names	Heparan sulfate 2-O-sulfotransferase 1, 2-O-sulfotransferase, 2OST, 282-, HS2ST1, HS2ST, KIAA0448
Target/Specificity	This HS2ST1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-45 amino acids from the N-terminal region of human HS2ST1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HS2ST1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

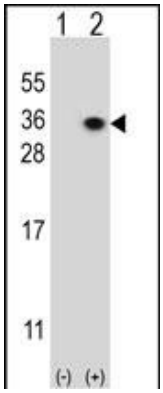
Name	HS2ST1 (HGNC:5193)
Synonyms	HS2ST, KIAA0448
Function	Catalyzes the transfer of a sulfo group from 3'-phospho-5'- adenylyl sulfate

	(PAPS) to the 2-OH position of iduronic acid (IdoA) or glucuronic acid (GlcA) within the heparan sulfate (HS) chain and participates in HS biosynthesis (By similarity). Required for metanephric development of kidney formation, suggesting that 2-O- sulfation within HS is essential for signaling between ureteric bud and metanephric mesenchyme (By similarity).
Cellular Location	Golgi apparatus membrane {ECO:0000250|UniProtKB:Q8R3H7}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q8R3H7}

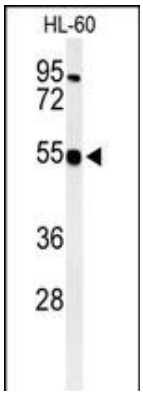
Background

Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. Heparan sulfate 2-O-sulfotransferase is a member of the heparan sulfate biosynthetic enzyme family. This family member transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of the HS2ST1 gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation.

Images



Western blot analysis of HS2ST1 (arrow) using rabbit polyclonal HS2ST1 Antibody (N-term) (Cat# AP7648a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HS2ST1 gene (Lane 2) (Origene Technologies).



Western blot analysis of HS2ST1 Antibody (N-term) (Cat# AP7648a) in HL-60 cell line lysates (35ug/lane).HS2ST1 (arrow) was detected using the purified Pab.

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