10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHSY3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21080a

Product Information

Application	WB, E
Primary Accession	Q70JA7
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51742
Calculated MW	100284

Additional Information

Gene ID	337876
Other Names	Chondroitin sulfate synthase 3, Carbohydrate synthase 2, Chondroitin glucuronyltransferase 3, Chondroitin synthase 2, ChSy-2, Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II, N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 3, N-acetylgalactosaminyltransferase 3, CHSY3, CHSY2, CSS3
Target/Specificity	This CHSY3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 295-329 amino acids from the Central region of human CHSY3.
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	CHSY3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHSY3

Synonyms	CHSY2, CSS3 {ECO:0000303|PubMed:12907687
Function	Catalytic component of CHSY1-CHPF2 and CHSY1-CHPF chondroitin sulfate synthase complexes (PubMed:41298522). Has both beta-1,3- glucuronic acid and beta-1,4-N-acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N- acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Specific activity is much reduced compared to CHSY1.
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein
Tissue Location	Detected at low levels in brain, cerebral cortex, uterus and small intestine.

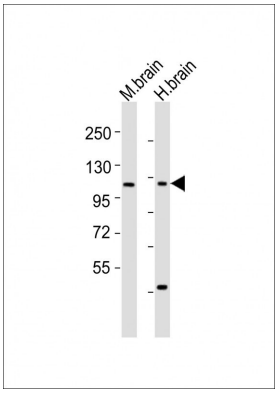
Background

Has both beta-1,3-glucuronic acid and beta-1,4-N- acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Specific activity is much reduced compared to CHSY1.

References

Yada T.,et al.J. Biol. Chem. 278:39711-39725(2003).
Kamakari S.,et al.Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.

Images



All lanes : Anti-CHSY3 Antibody (Center) at 1:1000-1:2000 dilution Lane 1: mouse brain lysates Lane 2: human brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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