



CHSY1 Polyclonal Antibody

Catalog No	BYab-02535
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	CHSY1
Protein Name	Chondroitin sulfate synthase 1
Immunogen	The antiserum was produced against synthesized peptide derived from human CHSY1. AA range:341-390
Specificity	CHSY1 Polyclonal Antibody detects endogenous levels of CHSY1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHSY1; CHSY; CSS1; KIAA0990; Chondroitin sulfate synthase 1; Chondroitin glucuronyltransferase 1; Chondroitin synthase 1; ChSy-1; Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase 1; N-acetylgalactosa
Observed Band	91kD
Cell Pathway	Golgi apparatus, Golgi stack membrane ; Single-pass type II membrane protein . Secreted .
Tissue Specificity	Ubiquitous, with the highest levels in placenta. Detected at low levels in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, adrenal gland, mammary gland, stomach, small intestine, lung and peripheral blood leukocytes.
Function	catalytic activity:UDP-alpha-D-glucuronate + N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-proteoglycan = UDP + beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-proteoglycan.,catalytic activity:UDP-N-acetyl-D-galactosamine + beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-proteoglycan = UDP

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N-acetyl-beta-D-galactosaminyI-(1->4)-beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyI-proteoglycan.,cofactor:Divalent cations. Highest activities are measured with cobalt, manganese and cadmium.,function:Has both beta-1,3-glucuronic acid and beta-1,4-N-acetylglactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylglactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer.,online information:Chondroitin sulfate synthase 1,online information:GlycoGene d

Background

This gene encodes a member of the chondroitin N-acetylglactosaminyItransferase family. These enzymes possess dual glucuronyItransferase and galactosaminyItransferase activity and play critical roles in the biosynthesis of chondroitin sulfate, a glycosaminoglycan involved in many biological processes including cell proliferation and morphogenesis. Decreased expression of this gene may play a role in colorectal cancer, and mutations in this gene are a cause of temtamy preaxial brachydactyly syndrome. [provided by RefSeq, Dec 2011],

matters needing attention

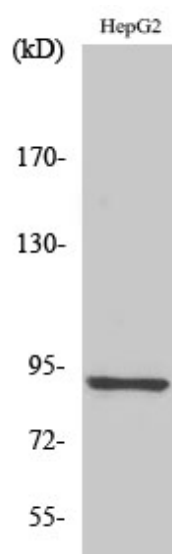
Avoid repeated freezing and thawing!

Usage suggestions

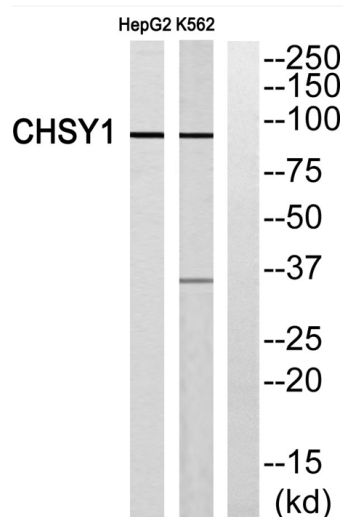
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



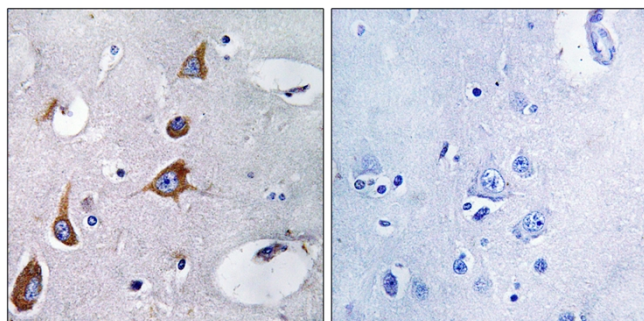
Products Images



Western Blot analysis of various cells using CHSY1 Polyclonal Antibody



Western blot analysis of CHSY1 Antibody. The lane on the right is blocked with the CHSY1 peptide.



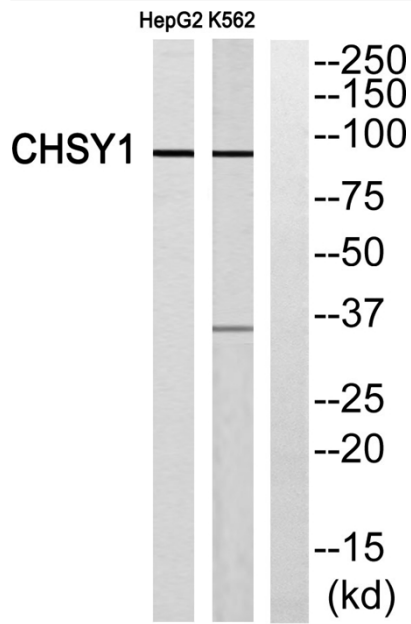
Immunohistochemistry analysis of paraffin-embedded human brain, using CHSY1 Antibody. The lane on the right is blocked with the CHSY1 peptide.

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Western blot analysis of the lysates from HepG2 cells using CHSY1 antibody.