

CHSY2 Polyclonal Antibody

Catalog No: YT0924

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: CHSY2

Fields: >>Glycosaminoglycan biosynthesis - chondroitin sulfate / dermatan

sulfate;>>Metabolic pathways

Gene Name: CHPF

Protein Name: Chondroitin sulfate synthase 2

Q8IZ52

Q6IQX7

Human Gene Id: 79586

Human Swiss Prot

No:

Mouse Gene Id: 74241

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

CHSY2. AA range:631-680

Specificity: CHSY2 Polyclonal Antibody detects endogenous levels of CHSY2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:**

Observed Band: 85kD

Chondroitin sulfate biosynthesis; **Cell Pathway:**

catalytic activity:UDP-alpha-D-glucuronate + N-acetyl-beta-D-**Background:**

galactosaminyl-(1->4)-beta-D-glucuronosyl-proteoglycan = UDP + beta-D-glucuro

nosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosylproteoglycan., catalytic activity: UDP-N-acetyl-D-galactosamine + beta-D-

glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-proteoglycan = UDP + N-ac etyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-

galactosaminyl-proteoglycan.,cofactor:Divalent cations. Highest activities are measured with manganese. Can also utilize cobalt., function: 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., online information: GlycoGene

database, PTM: Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the chondroitin N-acetylgalactosaminyltransferase family., subunit: Binds CHSY1., tissue specificity: Ubiquitous. Highly expressed in pancreas, ovary, brain, heart, skeletal muscle, colon, kidney, liver, stomach, small

intestine and placenta.,

Function: catalytic activity:UDP-alpha-D-glucuronate + N-acetyl-beta-D-

galactosaminyl-(1->4)-beta-D-glucuronosyl-proteoglycan = UDP + beta-D-glucuro

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glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-proteoglycan = UDP + N-ac etyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-

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Subcellular Location:

[Isoform 1]: Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Cytoplasm, cytosol.; [Isoform 3]: Cytoplasm, cytosol.

Mitochondrion .; [Isoform 2]: Mitochondrion matrix .

Expression: Ubiquitous. Highly expressed in pancreas, ovary, brain, heart, skeletal muscle,

colon, kidney, liver, stomach, spleen and placenta.; [Isoform 2]: Expressed in brain, spleen, ovary, testis, lung and peripheral mononuclear cells.; [Isoform 3]:

Also ubiquitous.



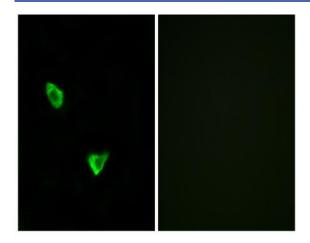
Sort : 3986

No4: 1

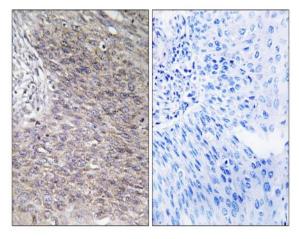
Host: Rabbit

Modifications: Unmodified

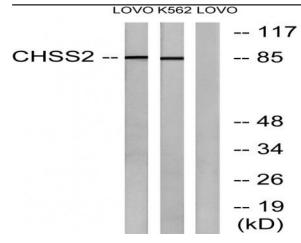
Products Images



Immunofluorescence analysis of MCF7 cells, using CHSY2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human cervix carcinoma tissue, using CHSY2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO and K562 cells, using CHSY2 Antibody. The lane on the right is blocked with the synthesized peptide.