产品名称：CHST6 Rabbit Polyclonal Antibody
产品货号：APRab08790

产品概述（Summary）

产品名称（Production Name）	CHST6 Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	ICC/IF,ELISA
种属反应性（Reactivity）	Human,Rat,Mouse

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	CHST6
别名（Alternative Names）	CHST6; Carbohydrate sulfotransferase 6; Corneal N-acetylglucosamine-6-O-sulfotransferase; C-GlcNAc6ST; hCGn6ST; Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-beta; GST4-beta; N-acetylglucosamine 6-O-sulfotransfera
基因 ID（Gene ID）	4166.0
蛋白 ID（SwissProt ID）	Q9GZX3.The antiserum was produced against synthesized peptide derived from human CHST6. AA range:331-380

产品应用（Application）

稀释比（Dilution Ratio）	ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000

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蛋白分子量（Molecular Weight）

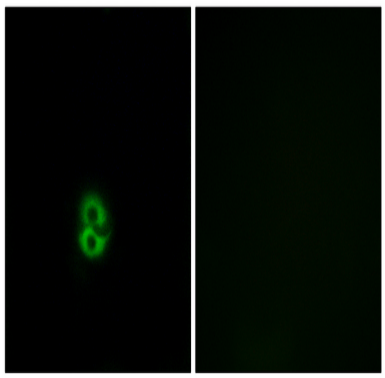
研究背景（Background）

The protein encoded by this gene is an enzyme that catalyzes the transfer of a sulfate group to the GlcNAc residues of keratan. Keratan sulfate helps maintain corneal transparency. Defects in this gene are a cause of macular corneal dystrophy (MCD). [provided by RefSeq, Jan 2010],caution:PubMed:12824236 reported a Gly-204 variant, however according to their results reported in figure 1, it is a Gln-204 variant.,disease:Defects in CHST6 are the cause of macular corneal dystrophy (MCD) [MIM:217800]. MCD is an autosomal recessive disease characterized by corneal opacities. Onset occurs in the first decade, usually between ages 5 and 9. The disorder is progressive. Minute, gray, punctate opacities develop. Corneal sensitivity is usually reduced. Painful attacks with photophobia, foreign body sensations, and recurrent erosions occur in most patients. There are different types of MCD: MCD type I, in which there is a virtual absence of sulfated keratan sulfate (KS) in the serum and cornea, as determined by KS-specific antibodies; and MCD type II, in which the normal sulfated KS-antibody response is present in cornea and serum. MCD type I patients usually have a homozygous missense mutation, while MCD type II patients show a large deletion and replacement in the upstream region of CHST6. The only missense mutation for type II is Cys-50, which is heterozygous with a replacement in the upstream region on the other allele of CHST6.,function:Catalyzes the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues of keratan. Mediates sulfation of keratan in cornea. Keratan sulfate plays a central role in maintaining corneal transparency. Acts on the non-reducing terminal GlcNAc of short and long carbohydrate substrates that have poly-N-acetyllactosamine structures.,online information:GlycoGene database,similarity:Belongs to the sulfotransferase 1 family. Gal/GlcNAc/GalNAc subfamily.,tissue specificity:Expressed in cornea. Mainly expressed in brain. Also expressed in spinal cord and trachea.,

研究领域（Research Area）

Keratan sulfate biosynthesis;

图片（Image Data）



Immunofluorescence analysis of A549 cells, using CHST6 Antibody. The picture on the right is blocked with the synthesized peptide.

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注意事项（Note）

For research use only .