



Product datasheet

Anti-CHST14 antibody ab235056

2 Images

Overview

Product name	Anti-CHST14 antibody
Description	Rabbit polyclonal to CHST14
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human CHST14 aa 50-150. Database link: Q8NCH0
	 Run BLAST with  Run BLAST with
Positive control	WB: A549 cell lysate. IHC-P: Human pancreatic cancer tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab235056 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500 - 1/1000.
WB		1/500 - 1/5000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).

Target

Function

Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA-sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA.

Tissue specificity

Widely expressed. Expressed at high level in pituitary gland, placenta, uterus and thyroid.

Involvement in disease

Defects in CHST14 are the cause of Ehlers-Danlos syndrome musculocontractural type (EDSMC) [MIM:601776]. It is a form of Ehlers-Danlos syndrome characterized by distinctive craniofacial dysmorphism, congenital contractures of thumbs and fingers, clubfeet, severe kyphoscoliosis, muscular hypotonia, hyperextensible thin skin with easy bruisability and atrophic scarring, wrinkled palms, joint hypermobility, and ocular involvement.

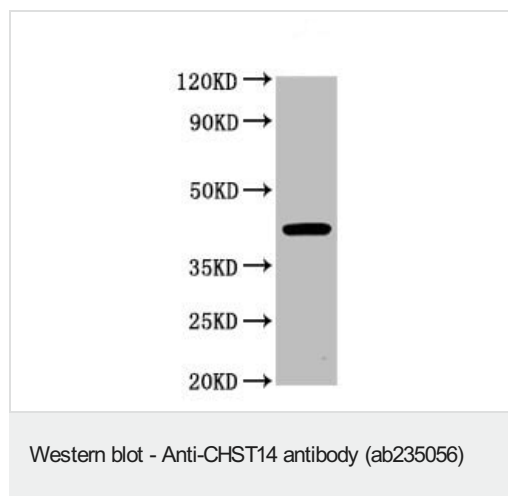
Sequence similarities

Belongs to the sulfotransferase 2 family.

Cellular localization

Golgi apparatus membrane.

Images

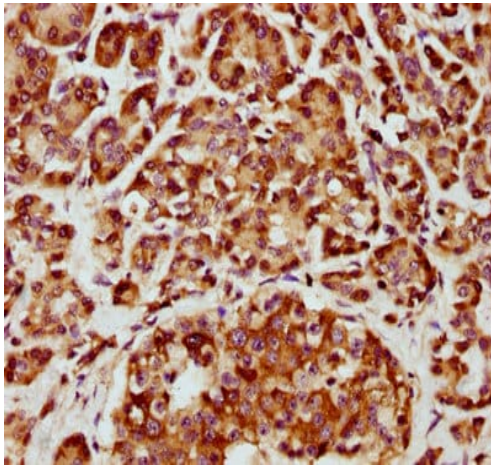


Anti-CHST14 antibody (ab235056) at 1/500 dilution + A549 (human lung carcinoma cell line) cell lysate

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHST14 antibody (ab235056)

Paraffin-embedded human pancreatic cancer tissue stained for CHST14 using ab235056 at 1/800 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at room temperature. Primary antibody (1% BSA) was incubated at 4°C overnight. The primary antibody was detected by a biotinylated secondary antibody and visualized using a HRP conjugated SP system.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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