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CHPF Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9046c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8IZ52
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23131
Calculated MW	85467
Antigen Region	327-354

Additional Information

Gene ID	79586
Other Names	Chondroitin sulfate synthase 2, Chondroitin glucuronyltransferase 2, Chondroitin-polymerizing factor, ChPF, Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II, N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase II, N-acetylgalactosaminyltransferase 2, CHPF, CSS2
Target/Specificity	This CHPF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 327-354 amino acids from the Central region of human CHPF.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	CHPF Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHPF (HGNC:24291)

Synonyms	CSS2
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. Seems to act as a specific activating factor for CHSY1 in chondroitin polymerization (PubMed:12716890).
Cellular Location	[Isoform 1]: Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Cytoplasm, cytosol [Isoform 2]: Mitochondrion matrix
Tissue Location	Ubiquitous. Highly expressed in pancreas, ovary, brain, heart, skeletal muscle, colon, kidney, liver, stomach, spleen and placenta. [Isoform 3]: Also ubiquitous.

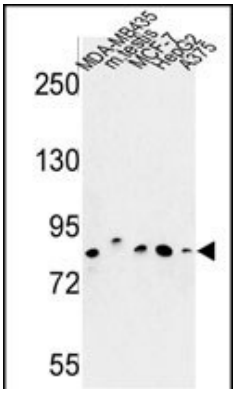
Background

CHPF is a protein that 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.

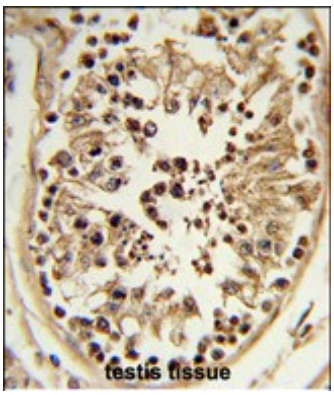
References

Matsuoka,S., et.al., Science 316 (5828), 1160-1166 (2007)
Colland,F., et.al., Genome Res. 14 (7), 1324-1332 (2004)

Images

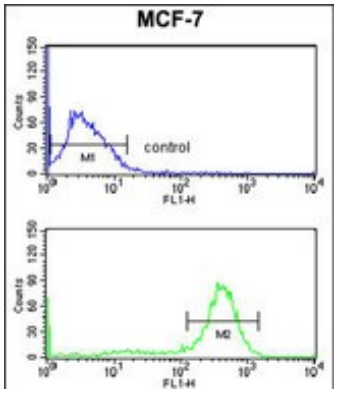


Western blot analysis of CHPF Antibody (Center) (Cat. #AP9046c) in MDA-MB435, MCF-7, HepG2, A375 cell line and mouse testis tissue lysates (35ug/lane). CHPF (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with CHPF Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

CHPF Antibody (Center) (Cat. #AP9046c) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.