

**CHPF Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
Catalog # AP9046c

**Specification**

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**CHPF Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q8IZ52</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	85467
Antigen Region	327-354

**CHPF Antibody (Center) - 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~~1:50~100  
FC~~1:10~50

**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.

**CHPF Antibody (Center) - 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**

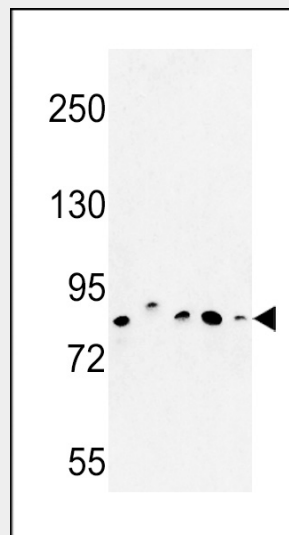
Ubiquitous. Highly expressed in pancreas, ovary, brain, heart, skeletal muscle, colon, kidney, liver, stomach, spleen and placenta. [Isoform 3]: Also ubiquitous.

**CHPF Antibody (Center) - Protocols**

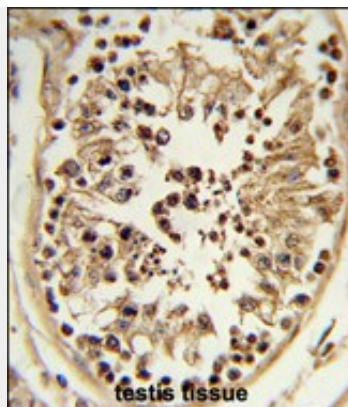
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

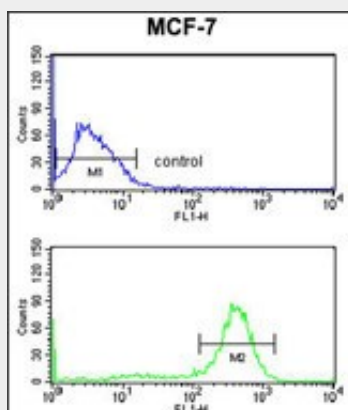
**CHPF Antibody (Center) - Images**



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.

### CHPF Antibody (Center) - 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.

### CHPF Antibody (Center) - References

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