CHPF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHPF, Polyclonal Antibody
Full Product Name	CHPF, ID (CHPF, CSS2, Chondroitin sulfate synthase 2, Chondroitin glucuronyltransferase 2, Chondroitin-polymerizing factor, Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II, N-acetylgalactosaminyl-proteoglycan 3
Product Gene Name	anti-CHPF antibody
Product Synonym Names	CHPF; CSS2; Chondroitin sulfate synthase 2; Chondroitin glucuronyltransferase 2; Chondroitin-polymerizing factor; Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase II; N-acetylgalactosaminyltransferase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	85,467 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (220403669..220408487, complement). Location: 2q35
OMIM	610405
3D Structure	ModBase 3D Structure for Q8IZ52
Immunogen	CHPF antibody is generated from rabbits immunized with a KLH conjugated Synthetic peptide selected from the center region of human CHPF.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CHPF antibody	Antibodies; Enzymes; Glucuronosyltransferase
Applications Tested/Suitable for anti-CHPF antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CHPF antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CHPF antibody	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.

Product References and Citations for anti-CHPF antibody	Matsuoka, S., et.al., Science 316 (5828), 1160-1166 (2007). Colland, F., et.al., Genome Res. 14 (7), 1324-1332 (2004).
Other Notes	Small volumes of anti-CHPF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHPF purchase	MBS6285773 is an antibody targeting CHPF. Also known as CHPF, ID (CHPF, CSS2, Chondroitin sulfate synthase 2, Chondroitin glucuronyltransferase 2, Chondroitin-polymerizing factor, Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II, N-acetylgalactosaminyl-proteoglycan 3. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHPF. It may not necessarily be applicable to this product.

NCBI GI #	307691169
NCBI GeneID	79586
NCBI Accession #	NP_001182660.1
UniProt Primary Accession #	Q8IZ52
UniProt Secondary Accession #	Q6UXD6; Q7L4G1; Q9H0F8; Q9H618
UniProt Related Accession #	Q8IZ52
GenBank Nucleotide #	NM_001195731.1
NCBI Official Full Name	chondroitin sulfate synthase 2 isoform 2
NCBI Official Synonym Full Names	chondroitin polymerizing factor
NCBI Official Symbol	CHPF
NCBI Official Synonym Symbols	CSS2; CHSY2
UniProt Protein Name	Chondroitin sulfate synthase 2
UniProt Synonym Protein Names	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
Protein Family	Chondroitin sulfate synthase
UniProt Gene Name	CHPF
UniProt Synonym Gene Names	CSS2; ChPF
UniProt Entry Name	CHSS2_HUMAN
NCBI Protein Information	chondroitin sulfate synthase 2; chondroitin-polymerizing factor; N-acetylgalactosaminyltransferase 2; chondroitin glucuronyltransferase 2; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase II; glucuronosyl-N-acetylgalactosaminyl-proteogly

UniProt Comments for CHPF	CHPF: a type II transmembrane protein. May act as a specific activating factor for chondroitin synthase in chondroitin biosynthesis and polymerization. Protein type: Transferase; EC 2.4.1.226; Glycan Metabolism - chondroitin sulfate biosynthesis; Membrane protein, integral; EC 2.4.1.175 Chromosomal Location of Human Ortholog: 2q35 Cellular Component: Golgi membrane; mitochondrial matrix; integral to membrane; cytosol Molecular Function: protein binding; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase activity; metal ion binding; glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase activity Biological Process: chondroitin sulfate metabolic process; chondroitin sulfate biosynthetic process; glycosaminoglycan metabolic process; carbohydrate metabolic process; pathogenesis
Research Articles on CHPF	**1.** CHPF was found to be differentially methylated in human squamous cell carcinomas.
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