10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CSGLCAT Antibody

Catalog # AP60945

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9P2E5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85948

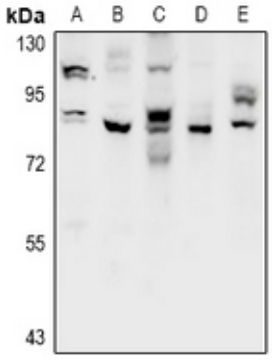
Additional Information

Gene ID	54480
Other Names	CHSY3; CSGLCAT; KIAA1402; Chondroitin sulfate glucuronyltransferase; CSGlcA-T; Chondroitin glucuronyltransferase; Chondroitin polymerizing factor 2; ChPF-2; Chondroitin synthase 3; ChSy-3; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CSGLCAT. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

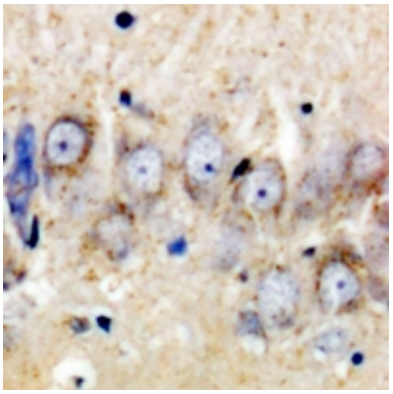
Protein Information

Name	CHPF2
Synonyms	CHSY3, CSGLCAT, KIAA1402
Function	Non-catalytic component of CHSY1-CHPF2 and CHSY3-CHPF2 chondroitin sulfate synthase complexes. CHPF2 associates with catalytically active chondroitin synthases (CHSY1/3) within heterodimeric complexes. Plays an essential role for the formation of a stable and functional chondroitin sulfate polymerase complexes.
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein
Tissue Location	Ubiquitous. Highly expressed in placenta, small intestine and pancreas.

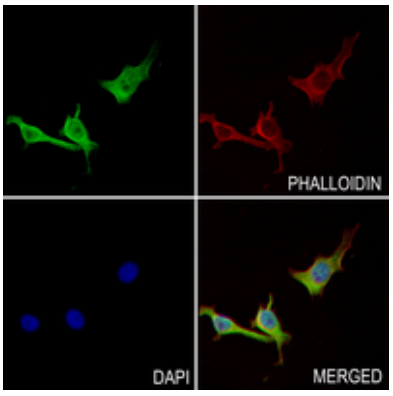
Images



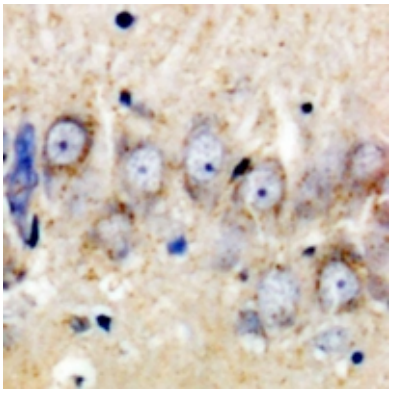
Western blot analysis of CSGLCAT expression in CT26 (A), PC12 (B), HCT116 (C), LOVO (D), HEK293T (E) whole cell lysates. (Predicted band size: 85 kD; Observed band size: 86 kD)



Immunohistochemical analysis of CSGLCAT staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CSGLCAT staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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