SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-CH25H antibody

Catalog Number: SL6480R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CH25H
Immunogen:	KLH conjugated synthetic peptide derived from human CH25H: 1-100/272
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat
Predicted MW.:	32kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	CH25H (Cholesterol 25-hydroxylase), also known as h25OH, is a 272 amino acid endoplasmic membrane protein that belongs to the sterol desaturase family. CH25H contains clusters of histidine residues essential for catalytic activity and is involved in cholesterol and lipid metabolism. CH25H catalyzes the formation of 25-hydroxycholesterol from cholesterol leading to the repression of cholesterol biosynthetic enzymes. CH25H regulates lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing. CH25H utilizes diiron cofactors to catalyze the hydroxylation of hydrophobic substrates. **Function:** CH25H is involved in cholesterol and lipid metabolism and catalyses the formation of 25-hydroxycholesterol from cholesterol, leading to repression of cholesterol biosynthetic enzymes. It may play an important role

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing. **Subcellular Location:** Endoplasmic reticulum membrane **Post-translational modifications:** N-glycosylated. **Similarity:** Belongs to the sterol desaturase family. **Database links:** **Entrez Gene:** 9023 Human **Entrez Gene:** 12642 Mouse **Entrez Gene:** 309527 Rat Omim: 604551 Human **SwissProt:** O95992 Human **SwissProt:** Q9Z0F5 Mouse **SwissProt:** Q4QQV7 Rat

[VALIDATION IMAGES]

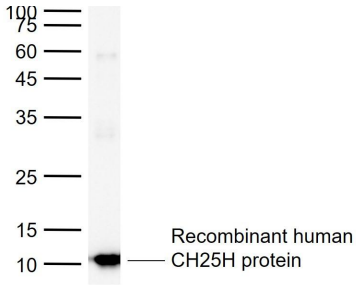


Figure 1. Sample: Lane 1: Recombinant human CH25H protein, His(SL41322P) Primary: Anti-CH25H (SL6480R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: kDa Observed band size: 11 kDa

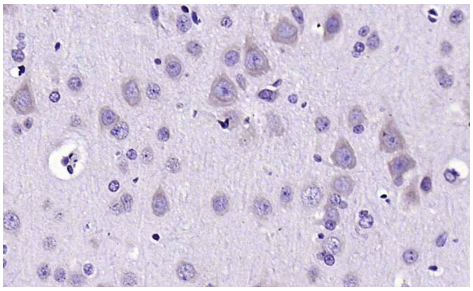


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CH25H Polyclonal Antibody, Unconjugated (SL6480R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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