SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CH25H antibody

Catalog Number: SL23620R

FOR RESEARCH USE ONLY

[DATASHEET]

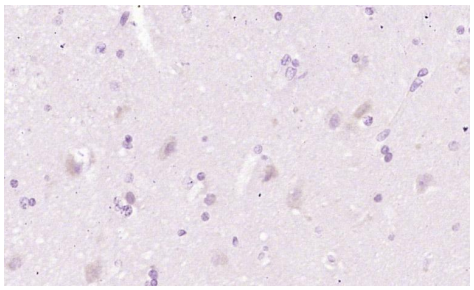
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CH25H
Immunogen:	KLH conjugated synthetic peptide derived from human CH25H : 181-272/272
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
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 in regulating lipid metabolism by synthesizing a corepressor that blocks sterol

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	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]



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CH25H) Polyclonal Antibody, Unconjugated (SL23620R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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