

Anti-CH25H Antibody

ER1919-29



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 32 kDa

Description: 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.

Immunogen: Synthetic peptide within human CH25H aa 51-100.

Positive control: Vero (African green monkey normal kidney cell) cell lysate, U-87 MG (Human glioblastoma cell) cell lysate, MG-63 (Human osteosarcoma cell) cell lysate, Mouse kidney tissue lysate, Mouse liver tissue lysate, Rat kidney tissue lysate, Rat brain tissue lysate.

Subcellular location: Endoplasmic reticulum membrane.

Database links: SwissProt: O95992 Human | Q9Z0F5 Mouse | Q4QQV7 Rat

Recommended Dilutions:

WB 1:10,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

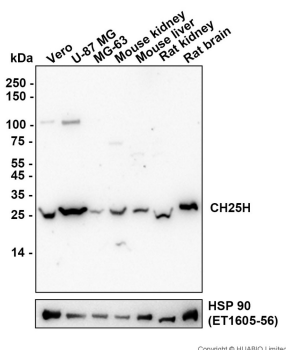
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of CH25H on different lysates with Rabbit anti-CH25H antibody (ER1919-29) at 1/10,000 dilution.



Lane 1: Vero (African green monkey normal kidney cell) cell lysate

Lane 2: U-87 MG (Human glioblastoma cell) cell lysate

Lane 3: MG-63 (Human osteosarcoma cell) cell lysate

Lane 4: Mouse kidney tissue lysate

Lane 5: Mouse liver tissue lysate

Lane 6: Rat kidney tissue lysate

Lane 7: Rat brain tissue lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 1minute 50 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: ER1919-29, 1/10,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 32 kDa

Observed band size: 32 kDa

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Lu Z et al. ATF3 and CH25H regulate effector trogocytosis and anti-tumor activities of endogenous and immunotherapeutic cytotoxic T lymphocytes. Cell Metab. 2022 Sep
2. Zhang Y et al. Novel CH25H(+) and OASL(+) microglia subclusters play distinct roles in cerebral ischemic stroke. J Neuroinflammation. 2023 May

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