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## CH25H Rabbit pAb

Catalog Number: bs-6480R

Target Protein: CH25H

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:400-800), IHC-F (1:400-800), IF (1:100-500)

Reactivity: Human, Rat

Predicted MW: 32 kDa

Subcellular: Cell membrane ,Cytoplasm

Locations:

Entrez Gene: 9023

Swiss Prot: O95992

Source: KLH conjugated synthetic peptide derived from human CH25H: 1-100/272.

Purification: affinity purified by Protein A

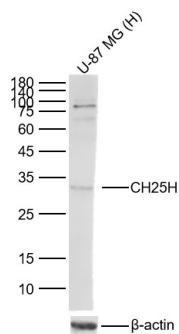
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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.

### VALIDATION IMAGES

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Sample: Lane 1: Human U-87 MG cell Lysates Primary: Anti-CH25H (bs-6480R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 32kDa Observed band size: 32kDa

## PRODUCT SPECIFIC PUBLICATIONS

[IF=31.25] Ceglia, Simona. et al. An epithelial cell-derived metabolite tunes immunoglobulin A secretion by gut-resident plasma cells. NAT IMMUNOL. 2023 Jan;;1-14 WB ; Mouse . 36658240

[IF=12.8] Tran Thanh-Tam. et al. Disruption of cholesterol homeostasis triggers periodontal inflammation and alveolar bone loss. EXP MOL MED. 2023 Dec;;1-11 IHC,WB ; Human,Mouse . 38036731

[IF=7.971] Samantha A. Hutchinson. et al. Liver x receptor alpha drives chemoresistance in response to side-chain hydroxycholesterols in triple negative breast cancer. Oncogene. 2021 Mar;;1-12 IHC ; Human . 33742124

[IF=5.56] Mukherjee, Pallavi, et al. "Transgenic Tomatoes Expressing the 6F Peptide and Ezetimibe Prevent Diet-induced Increases of Interferon-β and Cholesterol 25-hydroxylase in Jejunum." Journal of Lipid Research (2017): jlr-M076554. IHC ; ="Mouse" . 28592401

[IF=4.122] Chattopadhyay et al. Treating the Intestine with Oral ApoA-I Mimetic Tg6F Reduces Tumor Burden in Mouse Models of Metastatic Lung Cancer. (2018) Sci.Rep. 8:9032 IHC ; mouse . 29899427