

**bs-6480R****[ Primary Antibody ]****BioSS**  
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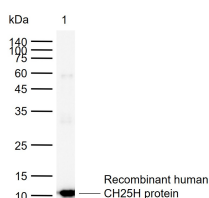
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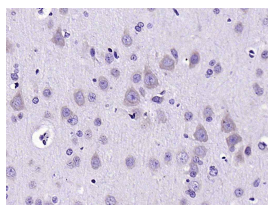
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**CH25H Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 9023 <b>Target:</b> CH25H <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human CH25H: 1-100/272. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> 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.	<b>Isotype:</b> IgG <b>SWISS:</b> O95992	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:400-800) <b>IHC-F</b> (1:400-800) <b>IF</b> (1:100-500) <b>Reactivity:</b> Human, Rat  <b>Predicted MW.:</b> 32 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
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**— VALIDATION IMAGES —**

Sample: Lane 1: Recombinant human CH25H protein, His(bs-41322P) Primary: Anti-CH25H (bs-6480R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: kDa Observed band size: 11 kDa



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 (bs-6480R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

**— SELECTED CITATIONS —**

- **[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- $\beta$  and Cholesterol 25-hydroxylase in Jejunum." Journal of Lipid Research (2017); jlr-

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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