

Rabbit CH25H Polyclonal Antibody | anti-CH25H antibody

CH25H Antibody (N-Term)

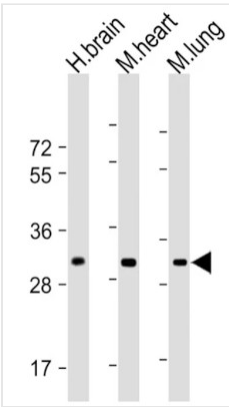
CATALOG # AAA290852	HOST Rabbit	REACTIVITY Human, MousePredicted: Pig	APPLICATIONS ELISA, Western Blot
-------------------------------	-----------------------	---	--

PRODUCT SYNONYMS

CH25H; Polyclonal Antibody; CH25H Antibody (N-Term); Cholesterol 25-hydroxylase; 1.14.99.38; Cholesterol 25-monooxygenase; h25OH; anti-CH25H antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted: Pig
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CH25H antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 47-76 amino acids from human CH25H.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	272
Applicable Applications for anti-CH25H antibody	ELISA, WB (Western Blot)
Function	Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes (PubMed:9852097). Plays a key role in cell positioning and movement in lymphoid tissues: 25-hydroxycholesterol is an intermediate in biosynthesis of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC), an oxysterol that acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (By similarity). May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing (PubMed:9852097). As an interferon- stimulated gene, has broad antiviral activities against a wide range of enveloped viruses, such as vesicular stomatitis virus (VSV) and SARS coronavirus-2 (SARS-CoV-2). Its product, 25-hydroxycholesterol, activates the ER-localized enzyme ACAT to induce internalization of accessible cholesterol on the plasma membrane and restricts SARS-CoV-2 S protein-mediated fusion which inhibits virus replication (PubMed:33239446, PubMed:32944968). In testis, production of 25- hydroxycholesterol by macrophages plays a role in Leydig cell differentiation (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q9Z0F5}; Multi-pass membrane protein {ECO:0000250 UniProtKB:Q9Z0F5}
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
All lanes : Anti-CH25H Antibody (N-Term) at 1:1000-1:2000 dilution
Lane 1: Human brain lysate
Lane 2: Mouse heart lysate
Lane 3: Mouse lung lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 32 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CH25H antibody	Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes. May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing. In testis, production of 25-hydroxycholesterol by macrophages may play a role in Leydig cell differentiation.
Product Categories/Family for anti-CH25H antibody	Primary Antibodies; Cancer; Cardiovascular; Cell Biology
References	Lund E.G.,et al.J. Biol. Chem. 273:34316-34327 (1998). Ota T.,et al.Nat. Genet. 36:40-45 (2004). Deloukas P.,et al.Nature 429:375-381 (2004). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Riemenschneider M.,et al.Neurobiol. Aging 25:1305-1308 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502499
NCBI GeneID	9023
NCBI Accession #	NP_003947.1
NCBI GenBank Nucleotide #	NM_003956.3
UniProt Accession #	O95992; B2RBY3
Molecular Weight	Calculated MW: 31745 Da
NCBI Official Full Name	cholesterol 25-hydroxylase
NCBI Official Synonym Full Names	cholesterol 25-hydroxylase
NCBI Official Symbol	CH25H
NCBI Official Synonym Symbols	C25H
NCBI Protein Information	cholesterol 25-hydroxylase
UniProt Protein Name	Cholesterol 25-hydroxylase
UniProt Gene Name	CH25H
UniProt Synonym Gene Names	h25OH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ch25h-antibody-western-blot-elisa/290852>