Phosphatidylcholine-sterol acyltransferase Polyclonal Antibody

Catalog No: #42536

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

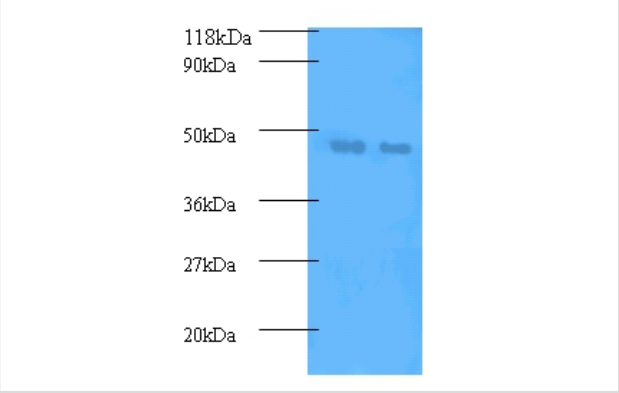
Description

Product Name	Phosphatidylcholine-sterol acyltransferase Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Phosphatidylcholine-sterol acyltransferase polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Phosphatidylcholine-sterol acyltransferase protein
Target Name	Phosphatidylcholine-sterol acyltransferase
Other Names	Lecithin-cholesterol acyltransferase??Phospholipid-cholesterol acyltransferase, LCAT
Accession No.	Swiss-Prot#: P04180
Uniprot	P04180
GeneID	3931;
Calculated MW	48kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: 1:500 - 1:1000

Images



All lanes : Phosphatidylcholine-sterol acyltransferase antibody at 2ug/ml
Lane 1 : EC109 whole cell lysateLane 2 : 293T whole cell lysate
Secondary
Goat polyclonal to Rabbit IgG at 1/10000 dilution
Predicted band size :48KDa
Observed band size:48KDa

Background

Central enzyme in the extracellular metabolism of plasma lipoproteins. Synthesized mainly in the liver and secreted into plasma where it converts cholesterol and phosphatidylcholines (lecithins) to cholesteryl esters and lysophosphatidylcholines on the surface of high and low density lipoproteins

(HDLs and LDLs). The cholesterol ester is then transported back to the liver. Has a preference for plasma 16:0-18:2 or 18:O-18:2 phosphatidylcholines. Also produced in the brain by primary astrocytes, and esterifies free cholesterol on nascent APOE-containing lipoproteins secreted from glia and influences cerebral spinal fluid (CSF) APOE- and APOA1 levels. Together with APOE and the cholesterol transporter ABCA1, plays a key role in the maturation of glial-derived, nascent lipoproteins. Required for remodeling high-density lipoprotein particles into their spherical forms.

References

[1]Human lecithin-cholesterol acyltransferase gene: complete gene sequence and sites of expression.McLean J., Wion K., Drayna D., Fielding C., Lawn R.Nucleic Acids Res. 14:9397-9406(1986) [2] Cloning and expression of human lecithin-cholesterol acyltrans

Note: This product is for in vitro research use only