

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Apolipoprotein H/ApoH in Western blots and detects recombinant mouse Apolipoprotein H/ApoH in direct ELISAs. In direct ELISAs, approximately 40% cross-reactivity with recombinant human Apolipoprotein H/ApoH is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Apolipoprotein H/ApoH Gly20-Cys345 Accession # Q01339
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Apolipoprotein H (ApoH), also known as β 2-Glycoprotein I/ β 2-GPI, is a variably glycosylated member of the complement control superfamily of proteins with a molecular weight of approximately 50 kDa (1, 2). Mature mouse ApoH consists of four tandem Sushi/SCR repeats followed by one Sushi-like repeat (3, 4). Mature mouse ApoH shares 76% and 42% aa sequence identity with human and rat ApoH, respectively. Hepatocyte-derived ApoH binds directly to negatively charged phospholipids (5). It circulates as a component of lipoprotein particles and as a lipid-free serum protein (6). ApoH also associates with liposomes and apoptotic cell debris, thereby enabling their renal clearance via Megalin uptake (7, 8). Circulating levels of ApoH are positively correlated with triglyceride-rich lipoprotein (VLDL) components in type II diabetes (9). ApoH inhibits thrombosis by blocking the activation of Coagulation Factor XI but also shows procoagulant activity by inhibiting the activation of Protein C (10, 11). ApoH can be cleaved by Plasmin at Lys317-Thr318, an action that is enhanced by heparin (12, 13). ApoH cleavage reduces its ability to bind phospholipids and inhibit Factor XI activation but confers the ability to bind Plasminogen (10, 12, 14). Cleaved ApoH also demonstrates antiangiogenic activity, whereas intact ApoH does not (14). The production of antibodies against ApoH is a hallmark of Antiphospholipid Syndrome (APS), an autoimmune disorder that leads to hypercoagulability and recurrent miscarriages (15). ApoH binds to the surface antigen of Hepatitis B Virus and is associated with the development of HBV-induced hepatocellular carcinoma (6, 16).

PRODUCT SPECIFIC NOTICES

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