Human Complement Factor H-related 4/ CFHR4 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF5980

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Complement Factor H-related 4/CFHR4 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) CFHR1, rhCFHR2, and rhCFHR5 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Complement Factor H-related 4/CFHR4 Arg41-Glu331 (Ser79Leu) Accession # Q92496
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

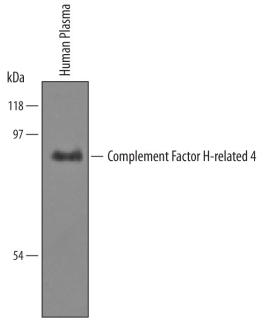
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Complement Factor H-related 4/CFHR4 by Western Blot. Western blot shows lyses of human plasma. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human Complement Factor H-related 4/CFHR4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5980) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Complement Factor H-related 4/CFHR4 at approximately 86 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FHR4 (Complement factor H-related protein 4; also FHR4B and CFHR4) is a 45 kDa glycoprotein member of the factor H-related protein family. It is synthesized by hepatocytes and circulates in plasma. FHR4(B) binds to C3b and C3d. It also binds to native (pentameric) C-reactive protein (pCRP), and is suggested to promote pCRP binding to necrotic cells surfaces, thus promoting cell clearance. Mature human CFHR is 312 amino acids (aa) in length. It contains five Sushi/SCR domains, the first of which (aa 23-85) is associated with pCRP binding. There is a circulating, 86 kDa alternative splice form termed FHR4A that shows an insertion of 247 aa after Asp92. This is considered the dominant isoform, and appears to show the same activity as CFHR. Over aa 41-331, human CFHR shares 61% aa identity with a related molecule found in rat.

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