

AP08882PU-N
Polyclonal Antibody to Complement factor H (CFH) (577-588) - Aff - Purified
Alternate names:

CFH, H factor 1, HF, HF1, HF2

Quantity:

50 µg

Concentration:

0.5 mg/ml

Background:

The complement Factor H protein is secreted into the bloodstream and acts in the regulation of complement activation. Mutations leading to changes in this protein have been linked with HUS (hemolytic-uremic syndrome) and chronic hypocomplementemic nephropathy. Factor H is mainly synthesised in the liver but also in macrophages and endothelium. It is primarily a plasma glycoprotein but is also found in platelets and there is a membrane bound form on some leukocytes. Consisting of a single polypeptide, the major form of Factor H has a molecular weight of 155kDa. There are two truncated forms, a non-glycosylated 49 kDa form and a glycosylated 39-43 kDa form. Plasma concentrations are in the range 200-600mg/L for the 155 kDa form and 1-5mg/L for the truncated forms. Factor H is a major regulatory protein of the complement system. By binding to C3b it either displaces or prevents the binding of Bb (activated Factor B). When bound to Factor H, C3b is susceptible to cleavage by Factor 1 to yield iC3b. Factor H is released or modified following this cleavage. The regulatory role of Factor H is essential because C3bBb is not only a C5 convertase but a C3 convertase and so has a positive feedback effect, potentially consuming the entire C3 pool if unregulated.

Uniprot ID:
[P08603](#)
NCBI:
[NP_000177.2](#)
GeneID:
[3075](#)
Host / Isotype:

Goat / IgG

Immunogen:

Synthetic peptide from an internal region of human CFH

AA Sequence:

C-HLVPDRKKDQYK

Remarks: Percent identity by BLAST analysis: Human, Gorilla, Gibbon (100%)

Format:
State: Liquid purified Ig

Purification: Immunoaffinity Chromatography

Buffer System: Tris saline buffer, pH 7.3, 0.5% BSA, 0.02% sodium azide

Applications:
ELISA: 1/32000.

Immunohistochemistry on Paraffin Sections: 2.5 µg/ml.

Western Blot: 0.03 - 0.1 µg/ml.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

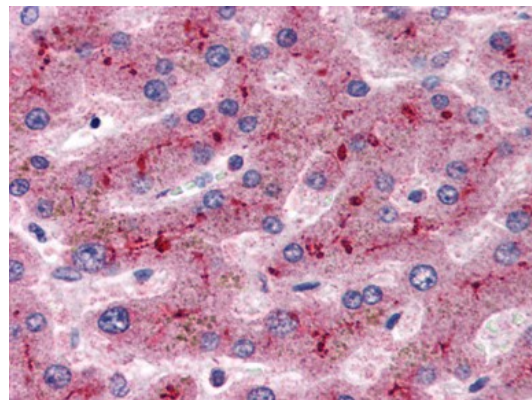
Specificity:

This antibody reacts to Complement Factor H (CFH) at aa 577-588.

Species Reactivity: Tested: Human, Gorilla, Gibbon

Storage: Store the antibody (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures: Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Antibody staining (0.03 µg/ml) of human lung lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

