# Data Sheet (Cat.No.TMAC-01422)

## Anti-Complement factor H/CFH Antibody (2X509)

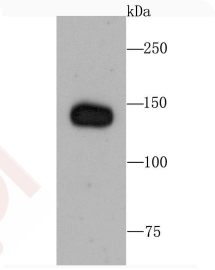
### Product Details

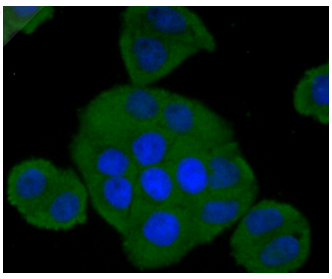
| | |
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 140 kDa. |
| Clone: | 2X509 |
| Purification: | ProA affinity purified |

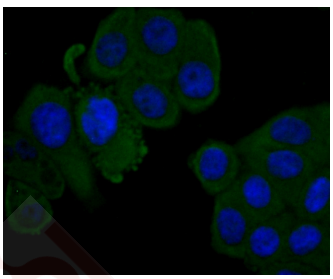
### Applications

Verified Activity:

1. Western blot analysis of Factor H on human lung tissue lysate using anti-Factor H antibody at 1/1,000 dilution.
2. ICC staining Factor H in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining Factor H in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





| | |
|---|---|
| Application: | ICC,WB |
| Recommended | WB: 1:500-2000; ICC: 1:50-200 |

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P08603

Synonyms: ARMD4;HF2;FH;CFH;H factor 1;FHL1;HUS;HF1;AMBP1;HF;AHUS1;CFHL3;Complement factor H; ARMS1

## Research Background

The Factor H gene family is a multidomain, multifunctional protein family whose individual members are defined by conserved structural elements, which display diverse yet often overlapping functions. These proteins share a common structural motif, the short consensus repeat (SCR), which is structurally conserved among related genes and between phylogenetically divergent species. The human complement Factor H (FH, CFH, HUS, b-1H) gene encodes a 1213 amino acid serum glycoprotein which is arranged into 20 SCRs, each approximately 60 amino acids long, and an 18-residue leader sequence. Factor H controls the function of the alternative complement pathway and acts as a cofactor with Factor I (C3b inactivator). In addition, Factor H has functional activity outside of the complement system, where it can bind to the cellular integrin receptor (CD11b/CD18), interact with cell surface glycosaminoglycans and associate with the surface of certain pathogenic microorganisms. Deficiencies in Factor H is a common characteristic of acute renal disease.



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