

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Complement Factor H-related 5/CFHR5 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 390513
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Complement Factor H-related 5/CFHR5 Glu19-Glu569 Accession # Q9BXR6
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	Recombinant Human Complement Factor H-related 5/CFHR5 (Catalog # 3845-F5) under non-reducing conditions only
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Complement Factor H-related 5/CFHR5 (Catalog # 3845-F5), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> ● 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

Complement factor H-related protein 5 (FHR-5 or CFHR5) is a 65 kDa member of the factor H-related protein family. It is secreted by the liver and circulates either free or bound to HDL. It is unique among FHR proteins in that it associates with complexes that arise from complement activation. It promotes C3b cleavage and blocks C3 convertase activity. Human CFHR5 is 551 amino acids (aa) in length. It contains nine, 60 aa SUSHI-, or short consensus repeats, plus 18 intrachain disulfide bonds. SUSHI repeats 5-7 (aa 267-444) reportedly mediate CFHR5 binding to CRP and heparin. The complement interaction site(s) is unknown. Human CFHR5 shares 64% aa sequence identity with canine CFHR5.