

DESCRIPTION

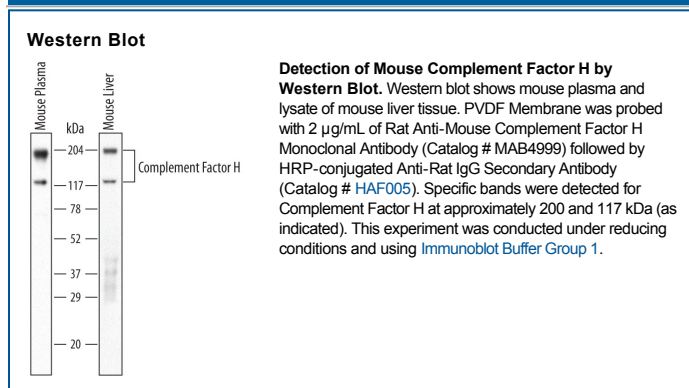
Species Reactivity	Mouse
Specificity	Detects mouse Complement Factor H in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant human (rh) Complement Factor H (aa 860-1231) and no cross-reactivity with rhComplement Factor H (aa 1-866), rhCD35, or recombinant mouse HABP1 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 511419
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Complement Factor H Ser857-Val1234 Accession # NP_034018
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 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	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 (CFH) is a 155 kDa glycoprotein that negatively regulates the alternative pathway complement cascade. It is secreted by Kupffer cells, hepatocytes, vascular endothelial cells, and platelets and circulates in the serum at high concentration. CFH interacts with cell surface polyanions and prevents local complement activation by sequestering complement component C3b, accelerating the decay of C3 and C5, and functioning as a cofactor for Factor I. CFH is composed of 20 SCR (short consensus repeats). Alternate splicing generates an isoform that is truncated following SCR7. Within SCR15 - 20 (aa 857-1234, which encompass the primary binding sites for heparin and C3b), human CFH shares 60% and 63% aa sequence identity with mouse and rat CFH, respectively.