

Human Complement Factor H-related 4/CFHR4 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 640212

Catalog Number: IC5980G

DESCRIPTION

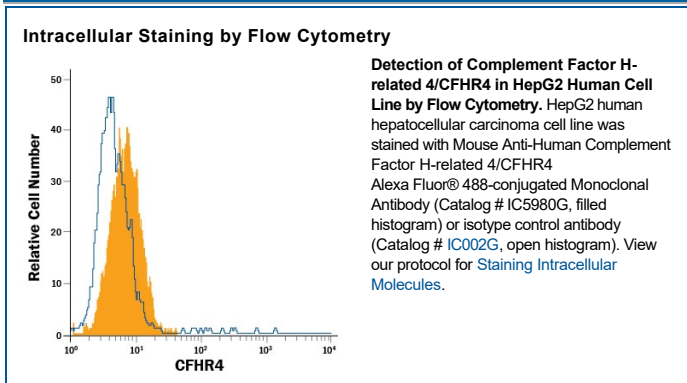
Species Reactivity	Human
Specificity	Detects human Complement Factor H-related 4/CFHR4 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) CFHR1, rhCFHR2, or rhCFHR5 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 640212
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Complement Factor H-related 4/CFHR4 Glu20-Glu331 Accession # Q92496
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

FHR4 (Complement factor H-related protein 4), also known as CFHR4, is an 84-86 kDa glycoprotein member of group 2 in the factor H-related protein family of molecules. It is synthesized by hepatocytes and circulates in plasma as a monomer. FHR4 binds to lipoproteins (LDL and VLDL), C3b and C3d, and to native (pentameric) C-reactive protein (pCRP). In addition to full-length 86 kDa CFHR4 (called FHR4A), there are two alternative splice forms. One simply shows a deletion of Glu20 relative to the full-length form. A second called FHR4B is 42-45 kDa in size, and shows a deletion of amino acids (aa) 60-306 within the mature CFHR4 molecule. This short isoform is the molecule used as the immunogen for clone 640212. This 312 aa short form contains five Sushi/SCR domains, the first of which (aa 23-85) is associated with pCRP binding. Both major isoforms appear to show the same activity. That is, they serve as a platform for C3 convertase assembly, and bind pCRP which leads to classical complement activation. Over aa 20-331, human CFHRB shares 47% aa identity with a related molecule found in rat.

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