

# Human Complement Factor H-related 4/CFHR4 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 640212

Catalog Number: IC5980V

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 640212
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Complement Factor H-related 4/CFHR4 Glu20-Glu331 Accession # Q92496
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	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		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HepG2 human hepatocellular carcinoma cell line cells fixed with paraformaldehyde and permeabilized with saponin

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

**BACKGROUND**  
FHR4 (Complement factor H-related protein 4; also FHR4B and CFHR4) is a 45 kDa glycoprotein member of the factor H-related protein family. It is synthesized by hepatocytes and circulates in plasma. FHR4(B) binds to C3b and C3d. It also binds to native (pentameric) C-reactive protein (pCRP), and is suggested to promote pCRP binding to necrotic cells surfaces, thus promoting cell clearance. Mature human CFHR is 312 amino acids (aa) in length. It contains five Sushi/SCR domains, the first of which (aa 23-85) is associated with pCRP binding. There is a circulating, 86 kDa alternative splice form termed FHR4A that shows an insertion of 247 aa after Asp92. This is considered the dominant isoform, and appears to show the same activity as CFHR. Over aa 41-331, human CFHR shares 61% aa identity with a related molecule found in rat.

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