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Product datasheet for CF805928

Factor I (CFI) Mouse Monoclonal Antibody [Clone ID: OTI7C8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7C8
Applications:	IHC
Recommended Dilution:	IHC 1:2000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 340-583 of human CFI(NP_000195) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	63.4 kDa
Gene Name:	complement factor I
Database Link:	NP_000195 Entrez Gene 3426 Human P05156

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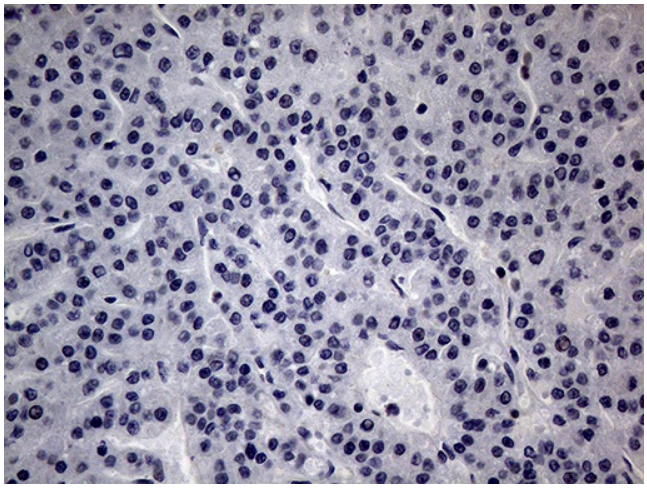
Background: This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uraemic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immmune deposits is another condition associated with mutation of this gene. [provided by RefSeq, Jul 2008]

Synonyms: AHUS3; ARMD13; C3b-INA; C3BINA; FI; IF; KAF

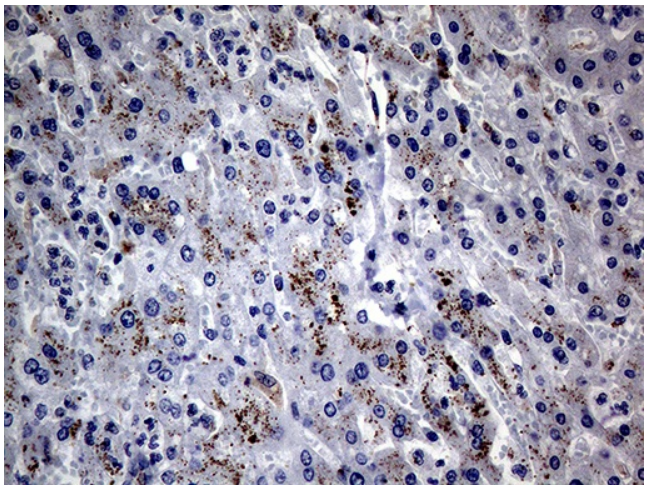
Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Complement and coagulation cascades

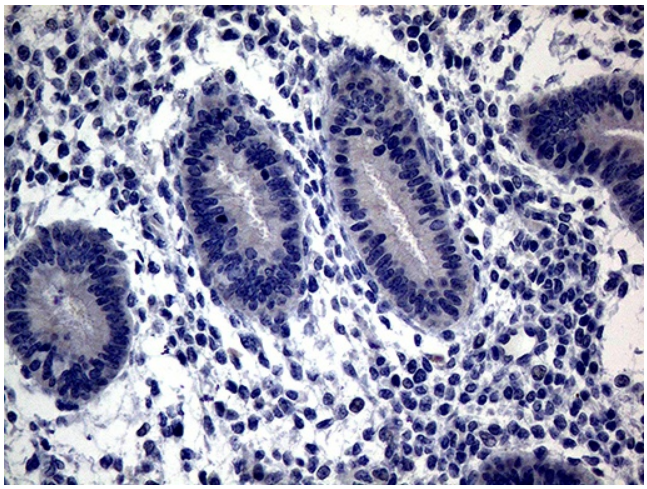
Product images:



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-CFI mouse monoclonal antibody.This figure shows negative staining. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA805928]) (1:2000)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-CFI mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA805928]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-CFI mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA805928]) (1:2000)