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CFI Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15961

Product Information

Application	WB
Primary Accession	P05156
Other Accession	NM_000204, NP_000195
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65750

Additional Information

Gene ID	3426
Alias Symbol	CFI, IF,
Other Names	Complement factor I, 3.4.21.45, C3B/C4B inactivator, Complement factor I heavy chain, Complement factor I light chain, CFI, IF
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-CFI antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	CFI Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CFI
Synonyms	IF
Function	Trypsin-like serine protease that plays an essential role in regulating the immune response by controlling all complement pathways. Inhibits these pathways by cleaving three peptide bonds in the alpha- chain of C3b and two bonds in the alpha-chain of C4b thereby inactivating these proteins (PubMed:17320177, PubMed:7360115). Essential cofactors for these reactions include factor H and C4BP in the fluid phase and membrane cofactor protein/CD46 and CR1 on cell surfaces (PubMed:12055245, PubMed:2141838, PubMed:9605165). The presence of these cofactors on healthy cells allows

	degradation of deposited C3b by CFI in order to prevent undesired complement activation, while in apoptotic cells or microbes, the absence of such cofactors leads to C3b-mediated complement activation and subsequent opsonization (PubMed:28671664).
Cellular Location	Secreted, extracellular space. Secreted
Tissue Location	Expressed in the liver by hepatocytes (PubMed:6327681). Also present in other cells such as monocytes, fibroblasts or keratinocytes (PubMed:17320177, PubMed:6444659)

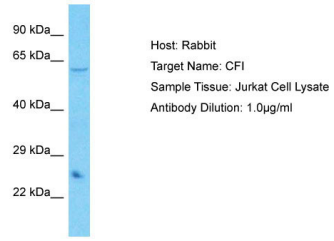
Background

Responsible for cleaving the alpha-chains of C4b and C3b in the presence of the cofactors C4-binding protein and factor H respectively.

References

Catterall C.F.,et al.Biochem. J. 242:849-856(1987).
Goldberger G.,et al.J. Biol. Chem. 262:10065-10071(1987).
Hillier L.W.,et al.Nature 434:724-731(2005).
Minta J.O.,et al.Gene 208:17-24(1998).
Ullman C.G.,et al.FEBS Lett. 371:199-203(1995).

Images



Host: Rabbit
Target Name: CFI
Sample Tissue: Jurkat Whole Cell lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.