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Rabbit Anti-Complement C4 / C4a antibody

SL11274R

Product Name:	Complement C4 / C4a
Chinese Name:	过敏毒素C4/补体C4抗体
Alias:	C4a anaphylatoxin; Complement C4-A alpha chain; complement C4-A proprotein; Acidic C4; Acidic complement C4; Basic C4; Basic complement C4; C4 Anaphylatoxin; C4 complement C4d region; complement C4 alpha chain; C4A; C4A13; C4A2; C4A3; C4A4; C4A6; C4A91; C4B; C4B1; C4B12; C4B2; C4B3; C4B5; C4F; C4S; CH; Chido form of C4; CO4; Complement C4 A; Complement C4 B; Complement C4B; Complement component 4A (Rodgers blood group); Complement component 4A; Complement component 4B (Childo blood group); Complement component 4B; Complement component C4B; CPAMD2; CPAMD3. RG; Rodgers Form Of C4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	8/84/190kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Complement C4 C4a anaphylatoxin or complement C4 alpha chain:701-800/1744
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes the acidic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus and type I diabetes mellitus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]. **Function:** C4 plays a central role in the activation of the classical pathway of the complement system. It is processed by activated C1 which removes from the alpha chain the C4a anaphylatoxin. **Subunit:** This protein is synthesized as a single-chain precursor and, prior to secretion, is enzymatically cleaved to form a trimer of non-identical chains (alpha, beta and gamma). **Subcellular Location:** Secreted. **DISEASE:** Defects in C4A are the cause of complement component 4A deficiency (C4AD). A rare defect of the complement classical pathway associated with the development of autoimmune disorders, mainly systemic lupus with or without associated glomerulonephritis. **Similarity:** Contains 1 anaphylatoxin-like domain. Contains 1 NTR domain. **SWISS:** P0C0L4 **Gene ID:** 720 **Database links:** Entrez Gene: 100293534 Human

	Entrez Gene: 100507685 Human Entrez Gene: 720 Human Entrez Gene: 721 Human Omim: 120810 Human SwissProt: P0C0L4 Human SwissProt: P0C0L5 Human Unigene: 534847 Human Unigene: 720022 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.