

Recombinant Human C4d protein ab198640

1 图像

描述	
产品名称	重组人C4d蛋白
纯度	> 90 % SDS-PAGE. ab198640 was expressed in E.coli as inclusion bodies, refolded using unique “temperature shift inclusion body refolding” technology, chromatographically purified and sterile filtered.
表达系统	Escherichia coli
Accession	<u>P0C0L4</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MASMTGGQQMGRGHHHHHGNLYFQGGEFTLEIPGNSDPNMI PDGDFNSY VRVTASDPLDTLGSEGALSPGGVASLLRLPRGCGEQTMIYLA PTLAASRY LDKTEQWSTLPPETKDHAVDLIQKGYMRIQQFRKADGSYAAW LSRDSSTW LTAFVLKVLSLAQEQVGG SPEKLQETSNWLLSQQQADGSFQD PCPVLDRS MQGGLVGNDETVALTAFVTIALHHGLAVFQDEGAEPLKQRVE ASISKANS FLGEKASAGLLGAHAAAITAYALTLTKAPVDLLGVAHNNLMA MAQETGDN LYWGSVTGSQSNAVSPTPAPRNPSDPMPQAPALWIETTAYAL LHLLLHEG KAEMADQASAWLTRQGSFQGGFRSTQDTVIALDAL SAYWIAS HTTEERGL NVTLSSTGR
预测分子量	44 kDa including tags
氨基酸	957 to 1336
标签	His-T7 tag N-Terminus
额外的序列信息	cDNA was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal (NP_009224.2).
世安指标	

Our **Abpromise guarantee** covers the use of **ab198640** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用 SDS-PAGE

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Store at -80°C.

pH: 8.00

Constituent: 0.32% Tris HCl

Proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.

常规信息

功能 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. The remaining alpha chain fragment C4b is the major activation product and is an essential subunit of the C3 convertase (C4b2a) and the C5 convertase (C3bC4b2a) enzymes of the classical complement pathway.

Derived from proteolytic degradation of complement C4, C4a anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.

疾病相关 Defects in C4A are the cause of complement component 4A deficiency (C4AD) [MIM:120810]. A rare defect of the complement classical pathway associated with the development of autoimmune disorders, mainly systemic lupus with or without associated glomerulonephritis.

序列相似性 Contains 1 anaphylatoxin-like domain.

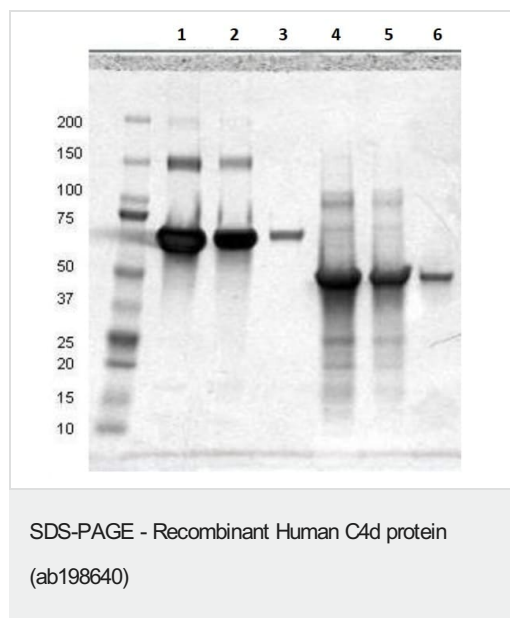
Contains 1 NTR domain.

翻译后修饰 Prior to secretion, the single-chain precursor is enzymatically cleaved to yield the non-identical chains (alpha, beta and gamma). During activation, the alpha chain is cleaved by C1 into C4a and C4b, and C4b stays linked to the beta and gamma chains. Further degradation of C4b by C1 into the inactive fragments C4c and C4d blocks the generation of C3 convertase.

N- and O-glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

细胞定位 Secreted.

图片



SDS PAGE analysis of ab198640, using BSA as a reference control protein. 4-20% gradient gel was used.

Lane 1: 10µg BSA

Lane 2: 5µg BSA

Lane 3: 1µg BSA

Lane 4: 10µl ab198640

Lane 5: 5µl ab198640

Lane 6: 1µl ab198640

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