

Rabbit Anti-Complement C4 Polyclonal: RC0003

Intended Use: For Research Use Only

Description: 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.

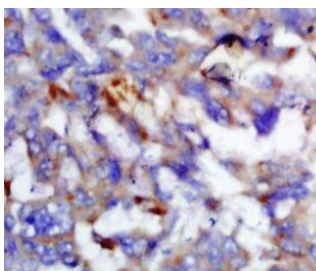
Specifications:

Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: KLH conjugated synthetic peptide derived from human Complement C4 C4a anaphylatoxin or complement C4 alpha chain 706-756/1744
 Localization: Secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF
 Package:

Description	Catalog No.	Size
Complement C4 Concentrated	RC0003	1 ml

IHC Procedure*:

Positive Control Tissue: Vessel tissue
 Concentrated Dilution: 10-100
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT (IHC) or 37°C (IF)
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human lung carcinoma stained with anti-Complement C4 using DAB

References:

1. Role of complement component C4 in treatment response and disease progression in chronic hepatitis C patients. Chowdhury SJ, et al. J Viral Hepat. Aug;22(8):671-4, 2015.
2. Human leukocyte antigen-specific antibodies and gamma-interferon stimulate human microvascular and glomerular endothelial cells to produce complement factor C4. Hamer R, et al. Transplantation. May 15;93(9):867-73, 2012.
3. The follicular dendritic cell restricted epitope, FDC-M2, is complement C4; localization of immune complexes in mouse tissues. Taylor PR, et al. Eur J Immunol. Jul;32(7):1888-96, 2002.

Doc. 100-RC0003
Rev. A