

Anti-Complement component C4 (human)**Mouse monoclonal antibody**Subclass: IgG₁/k

CAT. NO.

HYB 162-02

Clone:25.3F4

SPECIFICITY	HYB 162-02 is specific for human C4.
IMMUNOGEN	C4 isolated from human plasma
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Epitope specificity differs from that of HYB 162-04, as determined by inhibition ELISA.

PRESENTATION	
Content:	Available in 200 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	ELISA: HYB 162-02 reacts with C4. A strong reaction is seen with normal human serum when tested in sandwich ELISA in combination with a polyclonal antibody against C4 (e.g. DAKO A065). No reaction is seen with C4-depleted serum (1). WB: In Western blotting after SDS-PAGE, HYB 162-02 reacts with C4 in both reduced and non-reduced forms (2,3).
TARGET	C4 is a component of the classical complement pathway and is split by activated C1s to C4a and C4b. Together C2a and C4b forms the classical C3 convertase. The molecular mass of C4 is 204 kDa and it consists of 3 domains: α (97kDa), β (75 kDa) and γ (33 kDa).
REFERENCES	1. Petersen SV, Thiel S, Jensen L, Vorup-Jensen T, Koch C, Jensenius JC (2000) Control of the classical and the MBL pathway of complement activation. <i>Mol Immunol</i> 37:803-11. 2. Negishi A, Ono M, Handa Y, Kato H, Yamashita K, Honda K, Shitashige M, Satow R, Sakuma T, Kuwabara H, Omura K, Hirohashi S, Yamada T (2009) Large-scale quantitative clinical proteomics by label-free liquid chromatography and mass spectrometry. <i>Cancer Sci</i> 100:514-519. 3. Pilely K, Skjodt MO, Nielsen C, Andersen TE, Aabom AL, Vitved L, Koch C, Skjodt K, Palarasah Y (2014) A specific assay for quantification of human C4c by use of an anti-C4c monoclonal antibody. <i>J Immunol Methods</i> 405:87-96.

CONDITIONS

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