

Anti-Complement C3 [KF7] Standard Size Ab01234-10.9

This chimeric human antibody was made using a variable domain sequence of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1-Fc fusion

Clone Number: KF7

Alternative Name(s) of Target: C3

UniProt Accession Number of Target Protein: P12387

Published Application(s): SPR, ELISA

Published Species Reactivity: Guinea Pig

Immunogen: A female New Zealand White rabbit was immunised with guinea pig C3 by three subsequent subcutaneous injections. The RNA was isolated from bone marrow, a phage display library constructed and then used to produce soluble scFv fragments.

Specificity: KF7 is highly specific for guinea pig C3, with no binding observed between KF7 and guinea pig C3a, rat C3 and human C3.

Application Notes: ELISA was used to confirm the specificity of KF7 for guinea pig C3, with KF7 displaying high reactivity for gp C3. Reactivity with guinea pig C3a, rat C3, and human C3 was not observed. KF7 has a higher signal intensity than MF9 and MA11 (Hawlich et al, 2000). SPR was used to quantify the dissociation rate constant of KF7; KF7 has a dissociation rate constant of $1.6 \times 10^{-4} \text{ s}^{-1}$ (Hawlich et al, 2000).

Antibody First Published in: Hawlich et al, 2000. Guinea pig C3 specific rabbit single chain Fv antibodies from bone marrow, spleen and blood derived phage libraries J Immunol Methods. 2000 Mar 6;236(1-2):117-31 [PMID:10699585](#)

Note on publication: Describes the original generation of KF7 and its characterisation through ELISA and SPR.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.