



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Lysozyme [F9.13.7] Bulk Size Ab03220-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** F9.13.7

**Alternative Name(s) of Target:** Lysozyme C; 1,4-beta-N-acetylmuramidase C; GEL; hen egg-white lysozyme

**UniProt Accession Number of Target Protein:** P00704

**Published Application(s):** crystallography, ELISA

**Published Species Reactivity:** Numida meleagris (Helmeted guineafowl)

**Immunogen:** The antibody was raised against hen egg-white lysozyme.

**Specificity:** The antibody binds to lysozyme, in particular to residues H15, G16, Y20, R21, W63, R73, L75, N77, N93, K96, K97, S100, D101. The antibody partially overlaps the epitope recognized by antibody HyHEL10. Lysozyme degrades polysaccharides of various types of bacterial cell walls.

**Application Notes:** The specificity of the original format of the antibody was confirmed by ELISA analysis (Lescar et al., 1993; PMID: 7680133). The structure of the Fab fragment in complex with Guinea-Fowl Lysozyme was determined (Lescar et al., 1995; PMID: 7629116). Homogeneous kinetics of Fab and Fv fragments were studied and the KD values were  $0.57 \pm 0.05$  nM for scFv and  $1.6 \pm 0.2$  nM for Fab. Since the clone and HyHEL-10 recognized a common epitope, equilibria and kinetics of the two clones were evaluated. Results showed that the clone had greater specificity than HyHEL-10 despite its lower affinity (Pons et al., 2002; PMID: 12237453). The ability of the antibody to modulate in vitro the presentation of hen egg-white lysozyme (HEL) to specific T cells was evaluated, results showed the antibody was able to enhance the HEL presentation to L3E10 T cells (Guermonprez et al., 1999).

**Antibody First Published in:** Lescar et al. Crystallization, preliminary X-ray diffraction study, and crystal packing of a complex between anti-hen lysozyme antibody F9.13.7 and guinea-fowl lysozyme. *Proteins*. 1993 Feb;15(2):209-12. [PMID:7680133](#)

**Note on publication:** The paper describes the generation, the structure and characterization of the antibody.

## Product Form

**Size:**

1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.