

Anti-Pep27 [E2] Bulk Size Ab03599-23.0-BT

This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Lambda

Clone Number: E2

Alternative Name(s) of Target: Pep27 protein

UniProt Accession Number of Target Protein: Q8DQS1

Published Application(s): WB, ELISA

Published Species Reactivity: Streptococcus pneumoniae

Immunogen: To generate this antibody a synthetic human scFv library encoding HA-tagged scFv clones was used for biopanning against pep27.

Specificity: This antibody is specific for the pep27 protein of Streptococcus pneumoniae. Specifically the epitope Y24, R26 and K2. Pep27 is a secreted peptide which is the signal sensed by VncR/S.

Application Notes: An western blot was performed on proteins from S.aureus using the scFv version of this antibody, it showed that the antibody was specific for the pep27 protein. Furthermore an ELISA was performed on His6-MBP-Pep27, it showed specificity of this antibody to pep27 (Kim et al, 2018; pmid: 29753735).

Antibody First Published in: Kim et al. Molecular characterization of single-chain antibody variable fragments (scFv) specific to Pep27 from Streptococcus pneumoniae Biochem Biophys Res Commun. 2018 Jun 27;501(3):718-723. [PMID:29753735](#)

Note on publication: Two single-chain antibody variable fragments (scFv) were screened using a phage display from a large human synthetic scFv library to select clones E2 and F9. Dissociation constants (K_d) of E2 and F9 were 1.1 mM and 0.50 mM, respectively. E2 and F9 did not cross-react with other pneumococcal and unrelated proteins.

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.