

## Anti-LPS [S20] Standard Size Ab00793-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG2 format, for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** S20

**Alternative Name(s) of Target:** lipopolysaccharide; lipopolysaccharide O side chain

**UniProt Accession Number of Target Protein:**

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

**Published Species Reactivity:** 06ad P. aeruginosa

**Immunogen:** Ig-inactivated transgenic mice possessing human heavy and light Igs (strain XMG2) were immunized with heat-killed 06ad P. aeruginosa. The supernatants from the derived hybridomas were screened for IgG mAb production against the 06ad high molecular weight LPS O-side-chain using ELISA.

**Specificity:** S20 binds to the polysaccharide (PS) portion of the lipopolysaccharide O side chain of a common pathogenic serogroup of P. aeruginosa, 06ad. The antibody also binds Fisher Devlin immunotype 1 P. aeruginosa, (considered part of the 06 serogroup) but there is no cross-reactivity with LPSs from other P. aeruginosa serotypes (strains IATS 011, IATS 016, 170003, and PAO1 Holloway). P. aeruginosa is a human pathogen, which poses a serious risk to individuals with weak immune systems. LPS is a serotypic marker present on the surface of the bacterium.

**Application Notes:** S20 human MAb is highly opsonic (complement-dependent) for the uptake and killing of live and heat-killed P. aeruginosa by fresh human PMN ( polymorphonuclear leukocytes). BALB/c mice rendered neutropenic challenged with 06ad P. aeruginosa saw 100% protection from mortality. S20 can also be used to detect 06ad LPS by ELISA.

**Antibody First Published in:** Hemachandra Human Monoclonal Antibodies against Pseudomonas aeruginosa Lipopolysaccharide Derived from Transgenic Mice Containing Megabase Human Immunoglobulin Loci Are Opsonic and Protective against Fatal Pseudomonas Sepsis Infect Immun. 2001 Apr;69(4):2223-9 [PMID:11254577](#)

**Note on publication:** Describes the generation of a human mAb against 06ad P. aeruginosa LPS, its binding properties and its protective potential.

## Product Form

**Size:**

200 µg Purified antibody.

**Purification:** Protein A affinity purified

**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.