

## Anti-Lewis Y [3S193] Standard Size Ab01227-5.0

**Isotype and Format:** Mouse IgG3, Kappa

**Clone Number:** 3S193

**Alternative Name(s) of Target:** Ley

**UniProt Accession Number of Target Protein:**

**Published Application(s):** humanisation, ELISA, IHC

**Published Species Reactivity:** Human

**Immunogen:** 3S193 (IgG3) was generated in BALB/c mice by immunisation with Ley-expressing cells of the MCF-7 breast carcinoma cell-line.

**Specificity:** Lewis Y (Ley) is a blood group antigen expressed at high levels on the surface of epithelial tumors, including small cell lung cancer.

**Application Notes:** The murine 3S193 showed high specificity for Ley in ELISA tests with synthetic Ley and Ley-containing glycoproteins and glycolipids and also reacted strongly in rosetting assays and cytotoxic tests with Ley-expressing cells (Scott et al, 2000). Murine 3S193 was humanised and in antibody-dependent cell-mediated cytotoxicity assays displayed 100-fold greater activity (Kitamura et al, 1994). 3S193 has been used to screen tumour samples for Ley expression using immunohistochemistry (Krug et al, 2007). A crystal structure of the humanised antibody has been obtained to 1.9 Å resolution (Ramsland et al, 2004).

**Antibody First Published in:** Kitamura et al, 1994. Specificity analysis of blood group Lewis-y (Le(y)) antibodies generated against synthetic and natural Le(y) determinants. Proc Natl Acad Sci U S A. 1994 Dec 20; 91(26): 12957-12961 [PMID:7809154](#)

**Note on publication:** Describes the original generation of the antibody and its application to ELISA.

## 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.