

Anti-DNA [4B1] Standard Size Ab02998-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 4B1

Alternative Name(s) of Target: ssDNA; actin; tubulin; cardiolipin; laminin.

UniProt Accession Number of Target Protein:

Published Application(s): ELISA, IF

Published Species Reactivity: Species independent

Immunogen: The original antibody was derived from a 12 month old (NZB × NZW)F1 lupus mouse

Specificity: This antibody is a polyspecific antibody that has binding specificity for ssDNA, actin, tubulin, cardiolipin and laminin.

Application Notes: This antibody is capable of binding ssDNA, actin, tubulin, cardiolipin and to laminin in a solid phase ELISA. Indirect immunofluorescence labeling of HEp-2 cells gave a cytoplasmic staining pattern similar to that obtained with anti-cytoskeleton antibodies. Western blot analysis demonstrated that mAb 4B1 bore idiotype D23, previously shown to be characteristic of natural antibodies derived from normal mice. This antibody was able to form glomerular immune deposits (Gilbert et al., 1995; PMID: 7540257).

Antibody First Published in: Gilbert et al. An idiotype D23-bearing polyspecific, murine anti-DNA monoclonal antibody forms glomerular immune deposits. Pathogenic role of natural autoantibodies? Mol Immunol. 1995 May;32(7):477-86. [PMID:7540257](#)

Note on publication: Describes the generation and characterization of a polyspecific anti-DNA antibody that forms glomerular immune deposits.

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.