Anti-Hairpin DNA [DNA-1] Standard Size Ab00415-1.1

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** DNA-1

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

**UniProt Accession Number of Target Protein:**

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

**Published Species Reactivity:**

**Immunogen:** Derived from bacteriophage display library of IgG fragments derived from the immunoglobulin repertoire of an autoimmune SLE-like MRL7lpr mouse.

**Specificity:** Binds to hairpin-ssDNA; the DNA-fragment-ligand used is 5′-d [CTG(CCTT)CAG]-3′.

**Application Notes:** This antibody binds to single-stranded hairpin DNA, which is a secondary structural feature of DNA relevant in replication, bacterial conjugation or viral infections.

**Antibody First Published in:** Ou et al. Impact of DNA hairpin folding energetics on antibody-ssDNA association. Journal of Molecular Biology 2007; 374(4)1029-1040 PMID:18028946

**Note on publication:** Describes the generation of a monoclonal antibody against hairpin-DNA and subsequent crystallisation.

**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.