

Anti-Quadruplex DNA [4E11] Standard Size Ab00390-1.1

This reformatted mouse 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: Mouse IgG1, Kappa

Clone Number: 4E11

Alternative Name(s) of Target: G4 DNA

UniProt Accession Number of Target Protein:

Published Application(s): ELISA, IHC

Published Species Reactivity: Species independent

Immunogen: Oxy-2 or d(TTTTGGGG)2.

Specificity: The antibody binds to quadruplex DNA with a K_d of 2.64 nM. Binds specifically to only one type of quadruplex DNA, Oxy-2 (d(TTTTGGGG)2).

Application Notes: This antibody binds to quadruplex DNA, which is generated through the association of four guanines bound through Hoogsteen base pairing. G4-forming sequences are associated with immunoglobulin switch regions, promoter sequences, rDNA and telomeric repeats.

Antibody First Published in: Henderson et al. Detection of G-quadruplex DNA in mammalian cells. Nucleic Acids 2014; 42(2):860-869 [PMID:24163102](#)

Note on publication: Describes the generation of several G4-DNA-specific monoclonal antibodies and how these can be used for nuclear staining.

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.