

## Anti-Quadruplex DNA [1H6] Standard Size Ab00389-24.1

This chimeric goat antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** 1H6

**Alternative Name(s) of Target:** G4 DNA

**UniProt Accession Number of Target Protein:**

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

**Published Species Reactivity:** Species independent

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

**Specificity:** The antibody binds to quadruplex DNA with a Kd of 0.33 nM. Binds to both types of quadruplex DNA, Oxy-2 (d(TTTTGGGG)2) and Ver-3 (d(TGGGGG(TTAGGG)2T).

**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. Ab00389-1.1 was used by Hansel-Hertsch et al. 2016 (PMID: 27618450) in immunofluorescence staining (in comparison to the BG4 anti-G quadruplex antibody, c.f. Ab00174).

**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.