

Anti-Cisplatin modified DNA [CP9/19] Standard Size Ab00612-23.0

Developed in partnership with Ximbio (www.ximbio.com).

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

Isotype and Format: Rabbit IgG, Kappa

Clone Number: CP9/19

Alternative Name(s) of Target: ICR4

UniProt Accession Number of Target Protein:

Published Application(s): dot blot assay, IP, ELISA, IF, IHC

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing F344 rats with cisplatin-modified native DNA.

Specificity: Antibody CP9/19 recognises only the intra-strand cross-links formed by cisplatin between adjacent purines.

Application Notes: This antibody binds to cisplatin-modified DNA and enables the quantification of cisplatin-induced adducts on DNA (Tilby et al., 1991; PMID: 1703029). This antibody has also been used for the isolation of DNA fragments carrying adducts to enhance the sensitivity of subsequent PCR-based analyses and is central to ongoing studies of variation in the nature of cisplatin adducts formed in different cell lines (McGurk et al., 2001; PMID: 11494859). This antibody has been used for IHC on mouse samples (Rainey et al., 2016; PMID: 27122034). This antibody was used in an IF assay to detect platinum-DNA adducts (Nicholson et al., 2022; PMID: 35778553).

Antibody First Published in: Tilby et al. Sensitive detection of DNA modifications induced by cisplatin and carboplatin in vitro and in vivo using a monoclonal antibody. Cancer Res. 1991 Jan 1;51(1):123-9
[PMID:1703029](#)

Note on publication: The original publication describes the development and characterization of a monoclonal antibody-based assay (ICR4) enabling the sensitive quantitation of cisplatin-induced DNA adducts, down to levels relevant for inducing toxic effects in cells *in vitro* and *in vivo*.

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.