Anti-Cisplatin modified DNA [CP9/19] Standard Size Ab00612-7.1

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

Isotype and Format: Rat IgG2a, 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 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.