

Product datasheet for **AM26349PU-N**

BPDE-DNA Mouse Monoclonal Antibody [Clone ID: 5D11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5D11
Applications:	ELISA, IF, IHC, IP
Recommended Dilution:	Flow cytometry (8): Washed sperm was fixed in 2% paraformaldehyde and permeabilized with 0.2% triton x-100/0.1% sodium citrate. Samples were treated with protK and RNase. To denature DNA samples were incubated with 4n HCl. After blocking with 5% normal serum samples were incubated with mAb. Immunoassays (4,7): Plates were coated with 50 ng/well BPDE-DNA in 50mM Tris-buffer pH7.5 o/n at 4°C. Plates were blocked 1% FCS. DNA samples, 4µg, were mixed with 5D11 and added to the well. Detection with GtaMs-IgG-AP for 90'at 37°C. Immunoflourescence (8). Immunoprecipitation (10). Immunohistochemistry on paraffin sections (2,3,5,6,9): 5 µm sections were RNase and prot-K treated. DNA was denatured with 4N HCl and neutralized with 50mM Tris base. Section was blocked with 1.5% normal horse serum: The typical starting working dilution is 1:10.
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	BPDE-I-DNA complexed with methylated BSA
Specificity:	The monoclonal antibody 5D11 recognizes BPDE-I-DNA (PAH-DNA).
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.



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Stability: Shelf life: one year from despatch.

Background: A number of chemicals, including polycyclic aromatic hydrocarbons (PAHs), have been shown to bind to DNA. This DNA damage can occur both early and late in the malignant process, thereby acting as an initiator and assisting in the progression of tumors. PAHs are released into the environment following incomplete combustion of organic materials. The most common sources of PAHs are from smoking and from consuming broiled or grilled foods. Human exposure to PAHs comes from various occupational, environmental, dietary and medicinal sources. Benzo[a]pyrene is a representative PAH. Antibodies to benzo[a]pyrenediol-epoxide modified DNA (BPDE-DNA) can be used to identify polycyclic aromatic hydrocarbon (PAH)-DNA adducts. Exposure to this group of compounds is believed to be carcinogenic.