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> > Product data sheet

BPDE-DNA Monoclonal Antibody (5D11)

Catalog Number MA1-40269

Details		Species Reactivity	
Size	100 µg	Species reactivity	Chemical
Host/Isotope	Mouse / IgG2a	Tested Applications	Dilution *
Class	Monoclonal	ELISA (ELISA)	1:50
Туре	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	5D11	Immunohistochemistry (Paraffin)	1:10
Immunogen	BPDE-I-DNA complexed with methylated BSA	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 0.1% BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C		

Product specific information

This antibody recognizes BPDE-I-DNA (PAH-DNA). Flow Cytometry: samples were 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 HCI. Samples were blocked with 5% normal serum before incubation with the monoclonal antibody. ELISA: 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, 4 µg, were mixed with 5D11 and added to the well. Detection was performed using a Goat anti-Mouse IgG (AP) for 90 min. at 37°C. IHC (P): 5 µm sections were RNase and prot-K treated. DNA was denatured with 4N HCI and neutralized with 50mM Tris base. Sections were blocked with 1.5% normal horse serum prior to staining.

Background/Target Information

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.

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