

SM3070P**Monoclonal Antibody to Polynuclear Aromatic Hydrocarbons - Purified**

Alternate names:	PAHs
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	BAP-13
Immunogen:	Benzo[a]pyrenyl-1-butyric acid conjugated to BSA.
Format:	State: Liquid purified Ig fraction Purification: Precipitation methods (> 95% by SDS-PAGE). Buffer System: Phosphate buffered saline (PBS), pH 7.4 with 15 mM sodium azide as preservative.
Applications:	ELISA. Immunocytochemistry: suitable for Immunocytochemical analysis of DNA and protein adducts of benzo[a]pyrene in tissues of various species. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody is specific for Polynuclear Aromatic Hydrocarbons. It inhibits DNA adduct formation (this ability was investigated in rat liver microsomes spiked with calf thymus DNA and 7,8-diol-B[a]P).
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Suchánek M, Scharnweber T, Fisher M, Knopp D, Niessner R. Monoclonal antibodies specific to polynuclear aromatic hydrocarbons. <i>Folia Biol (Praha)</i> . 2001;47(3):106-7. PubMed PMID: 11409316. 2. Scharnweber T, Fisher M, Suchánek M, Knopp D, Niessner R. Monoclonal antibody to polycyclic aromatic hydrocarbons based on a new benzo[a]pyrene immunogen. <i>Fresenius J Anal Chem</i> . 2001 Nov;371(5):578-85. PubMed PMID: 11767882. 3. De Buck SS, Bouche FB, Brandenburger A, Muller CP. Modulation of the metabolism and adverse effects of benzo[a]pyrene by a specific antibody: a novel host factor in environmental carcinogenesis? <i>Carcinogenesis</i> . 2005 Apr;26(4):835-44. Epub 2005 Jan 6. PubMed PMID: 15637092.