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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Benzopyrene [22F12] Standard Size Ab03783-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 22F12

Alternative Name(s) of Target: B[a]P; PAHs; PAH; Benzo[a]pyrene; 3 4-Benzopyrene; polycyclic aromatic hydrocarbons; chrysene; indeno[1 2 3-cd]pyrene; benzo[b]fluoranthene

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by using six B[a]P-protein conjugates B[a]P-6-C4-BSA, B[a]P-6-C4-KLH, B[a]P-7-C4-BSA, B[a]P-7-C4-KLH, B[a]P-10-C4-BSA and B[a]P-10-C4-KLH as immunogens for mouse immunizations.

Specificity: This antibody is specific for benzo[a]pyrene, which is an organic compound belonging to polycyclic aromatic hydrocarbon (PAH). Benzo[a]pyrene is one of the isomeric forms of benzopyrene. It comes from certain substances when they are not burned completely. It is found in car exhaust, smoke from wood fires, tobacco, oil and gas products, charred or grilled foods, and other sources. Traces of Benzopyrene are found in soil and water. It is also a causative agent for skin rashes, burning feeling, skin color changes, warts, bronchitis and even lung cancers.

Application Notes: This antibody was used in the development of a sensitive ELISA for the detection of benzopyrene in water. The average IC50 for B[a]P and corresponding detection limit at a signal : noise (S/N) ratio of 3 was 65 ng/L and 24 ng/L. This antibody also cross reacts with chrysene, indeno[1,2,3-cd]pyrene, and benzo[b]fluoranthene (PMID: 15965533).

Antibody First Published in: Matschulat et al. Development of a highly sensitive monoclonal antibody based ELISA for detection of benzo[a]pyrene in potable water. Analyst. 2005 Jul;130(7):1078-86.

[PMID:15965533](#)

Note on publication: This paper describes the development of a sensitive indirect competitive ELISA for the detection of B[a]P in potable water.

Product Form

Size: 100 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.