



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-Benzopyrene [22F12] Bulk Size Ab03783-23.0-BT

**Isotype and Format:** Rabbit IgG, 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:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.