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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-3-5 ring polycyclic aromatic hydrocarbons (PAHs) [2G8] Standard Size Ab03546-2.3

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

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: 2G8

Alternative Name(s) of Target: unsubstituted PAH; 2-methylphenanthrene; 9,10-dimethylanthracene; 7,12 dimethylbenz(a)anthracene; 4-methyl dibenzothiophene; Benzo(a)pyrene; Chrysene; Pyrene; Phenanthrene; Anthracene

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing Balb/c mice were with 1-pyrene butyric acid-KLH.

Specificity: The antibody shows general selectivity and high sensitivity to a variety of 3-5 ring PAH, but it shows a low affinity for 2-ring PAHs. Polycyclic aromatic hydrocarbons (PAHs), a group of organic compounds composed of two or more blended aromatic rings, are an important class of environmental pollutants

Application Notes: The specificity of the original format of the antibody was confirmed by ELISA analysis. The antibody could inhibit unsubstituted and methylated PAHs by indirect competitive ELISA. IC50 values for unsubstituted PAHs ranged from 1.68 µg/L to 9.44 µg/L, while IC50 values against methylated PAHs (2-methylphenanthrene, 9,10-dimethylanthracene, 7,12 dimethylbenz(a)anthracene, 4-methyl dibenzothiophene) were ranging from 1.92 µg/L to 31 µg/L. The antibody was employed in the KinExA Inline Biosensor system for quantifying 3-5 ring PAHs in aqueous environmental samples (detection limit 0.2 µg/L) (Li et al., 2016; PMID: 26925369).

Antibody First Published in: Li et al. A highly sensitive monoclonal antibody based biosensor for quantifying 3-5 ring polycyclic aromatic hydrocarbons (PAHs) in aqueous environmental samples. Sens Biosensing Res. 2016 Mar 1;7:115-120. [PMID:26925369](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

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.