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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-dioxin [DD1] Bulk Size Ab03299-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: DD1

Alternative Name(s) of Target: PCDD; DLCs; PCDF; TCDD; DD-1

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The antibody was generated by immunizing Biozzi mice with 1-N-(adipamino)-2,3,7-triCDD-linked carrier-protein BSA.

Specificity: The antibody recognizes tetrachloro- and pentachloro-dibenzodioxins and -dibenzofurans. It falls to bind either non-chlorinated, mono-, hexa-, or octa-chlorinated dibenzodioxins, nor does it recognize non-chlorinated, octachloro- or 1,2,3,4,8,9-hexachlorodibenzofurans. Dioxins are a group of chemical compounds that are persistent organic pollutants (POPs) in the environment.

Application Notes: The specificity of the antibody for 2,3,7,8-TCDD was confirmed by ELISA analysis. In order to evaluate the ability of the antibody to recognize various kinds of polychlorinated dibenzodioxins and dibenzofurans, a competition ELISA was developed. The antibody recognized 3,3',4,4'-PCB and the single-ring, chlorinated compounds, 2,4,5-trichlorophenol, mixed isomers of hexachlorocyclohexane and 2,5-dinitrobenzene. The antibody is suitable for the development of rapid, inexpensive screening assays for monitoring the presence of dioxin in biological, soil and other environmental samples (Stanker et al., 1987; PMID: 3629609). Further, the recombinant Fab antibody was generated; it displayed competitive inhibition with 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) in an indirect ELISA (Lee et al.; 1998).

Antibody First Published in: Stanker et al. Monoclonal antibodies for dioxin: antibody characterization and assay development Toxicology. 1987 Sep;45(3):229-43. [PMID:3629609](#)

Note on publication: The paper describes the generation and characterization of a set of 5 anti-dioxin monoclonal antibodies.

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.