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Polyclonal Antibody to Bisphenol A - Purified

Catalog No.: AP33042PU-N

Quantity: 0.5 ml

Concentration: 0.8 mg/ml

Background: Bisphenol A (BPA) is predominantly used in the production of polycarbonate plastics and epoxy resins that are used in many products. It is released into the environment and food. BPA is an endocrine disruptor with estrogenic and obesogenic properties. It influences reproduction and has an epigenetic effect already in the foetus. Bisphenol A is a known hormone-disrupting agent, commonly used in plastics and diffusing into the environment and food.

Host / Isotype: Rabbit / IgG

Immunogen: BSA-Bisphenol Valeric Acid (BVA)

Format:
State: Liquid purified IgG fraction
Purification: Caprylic Acid Extraction
Buffer System: PBS, pH 7.2
Preservatives: 0.02% Sodium Azide

Applications:
ELISA: Dilution of 1/15,000 from the delivered solution (The titer is defined as the dilution that gives 50 % of the absorbance from the maximum absorbance when tested with ELISA).
Suggested concentration: 1/15,000 from the delivered solution. HRP-conjugated derivative as a tracer.
Immunoaffinity Chromatography.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
Target: Bisphenol A, *CAS no.*: 80-05-7, Solubility: Acetone, Ethanol, Ether, Benzene.
This antibody is highly specific for Bisphenol A.
Cross Reactivity in a Direct Assay
Molecules containing a phenolic group: Bisphenol A: 100%, 4,4'-(ethylidene) bisphenol: 10%, Bis-(4-hydroxy phenyl)-methane: 1%, Nonylphenol: 0.1%, 4-cumylphenol: 1%.
Molecules lacking a phenolic group: Vinclozolin: 0.1%, Pirimifos-ethyl: ‹ 0.1%, 17ß-Estradiol: ‹ 0.1%, 2,4 D: 0.1%, Sulfadimidine: ‹ 0.1%.
Cross Reactivity in an Indirect Assay
Molecules containing a phenolic group: Bisphenol A: 100%, 4,4'-(ethylidene) bisphenol: 10%, 4-cumylphenol: 10%.
Molecules lacking a phenolic group: Vinclozolin: ‹ 0.1%, Pirimifos-ethyl: ‹ 0.1%, 2,4 D: 0.1%, Fenitrothion: ‹ 0.1%, Chlorpyrifos-methyl: ‹ 0.1%, Erythromycine: ‹ 0.1%.

Storage: Store 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. Eline P. Meulenberg, Kees Koopal and Ria Rhemrev - Immunoassays for alkylphenolic pollutants with endocrine disrupting activity. Intern. J. Environ. Anal. Chem. Vol 85, no 12-13, 15 October-15 November 2005, 871-883.