

AP33043PU-N**Polyclonal Antibody to Chlorpyrifos - Purified**

Quantity:	0.5 ml
Concentration:	0.8 mg/ml
Background:	Chlorpyrifos is an insecticide belonging to the group of organophosphothioates. It is used in the culture of vegetables and in citrus orchards. Chlorpyrifos is an Acetylcholinesterase inhibitor and as such highly toxic, having an effect on the nerve system. There is evidence that Chlorpyrifos has an effect on the fetus that may lead to behavioural disorders and lowered concentration.
Host / Isotype:	Rabbit / IgG
Immunogen:	BSA-Chlorpyrifos Conjugate
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 1/100,000 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). <i>Suggested concentration:</i> 1/100,000 from the delivered solution. Plates are coated with 400 ng/ml OVA-conjugated chlorpyrifos. HRP-conjugated anti-rabbit IgG as a tracer 1/8,000. Immunoaffinity Chromatography. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Target: Chlorpyrifos, <i>CAS no.:</i> 2921-88-2, Solubility: Methanol, Iso-octanol, Benzene. This antibody is highly specific for Chlorpyrifos. <u>Pesticides : Cross Reactivity</u> Chlorpyrifos: 100%. 2-4 D: < 0.1%. Pirimiphos: 1%. Deltamethrin: < 0.1%. Fenitrothion: < 0.1%. Permethrin: < 0.1%. Etrimphos: < 0.1%. Atrazine: < 0.1%. Methacrimphos: < 0.1%. Aldicarb: < 0.1%. Malathion: < 0.1%. Tebuconazole: < 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. Meulenber, 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.