

**AP33039PU-N****Polyclonal Antibody to Alkylphenols (Nonylphenol, Octylphenol)  
- Purified**

<b>Quantity:</b>	0.5 ml
<b>Concentration:</b>	0.8 mg/ml
<b>Background:</b>	Alkylphenols are used as starting material for the production of surface active substances, detergents, pesticides, paints, textile and paper. It is released during the production and use of these products. Alkylphenols are recognized as endocrine disruptors, in particular estrogenic endocrine disruptors.
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	BSA-C8-Alkylphenol conjugate
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Caprylic Acid Extraction <b>Buffer System:</b> PBS, pH 7.2 <b>Preservatives:</b> 0.02% Sodium Azide
<b>Applications:</b>	<b>ELISA:</b> 1/200, depending on the conjugate used for detection. For positive controls ELISA plates are coated with 400 ng/ml BSA-conjugated C6/C8-Alkylphenol. HRP-conjugated anti-Rabbit IgG as a tracer 1/8,000. <b>Immunoaffinity Chromatography:</b> Antibody can be coupled to solid support materials. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is is specific for several Alkylphenols (a family of comparable compounds; as an example nonylphenol is given), CAS no.: 104-40-5 <b>Cross Reactivity: BSA-C6-AP / BSA-C8-AP:</b> 4-Octylfenol: 100% / 100%. 4-tert-Butylphenol: 67% / 27%. 2-sec-Butylphenol: 8% / 1%. 4-pentylphenol: 1167% / 2000%. 4-n-heptylphenol: 142% / 133%. 4-n-propylphenol: 500% / 250%. 2-n-propylfenol: 0,20% / 0%. 4-Isopropylphenol: 333% / 100%. 4-n-hexylphenol: 667% / 1667%. 4-chloro-2-cyclo-hexylphenol: 0% / 1%. nonylphenol(tech): 20% / 134%. 4-n-nonylphenol: 42% / 40%. Bisphenol-A: 4% / 7%. 4-cumylphenol: n.d. / 10%. 4,4'-(ethylidene) bisphenol: n.d. / 10/%. Bisphenol-A: n.d. / 0,1%. Bisphenol A diglycidyl ether: n.d. / 1%. 4,4'cyclohexylidene bisphenol: n.d. / 0,1%.

Bis-(4-hydroxyphenyl)-methane: n.d. / 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.

**Product Citations:****Purchased from Acris:**

1. Najet Belkhamssa, João P. da Costa, Celine I.L. Justino, Patrícia S.M. Santos, Susana Cardoso, Armando C. Duarte, Teresa Rocha-Santos, Mohamed Ksibi. Development of an electrochemical biosensor for alkylphenol detection. *Talanta* Volume 158, 1 September 2016, Pages 30-34.

**General Readings:**

1. Meulenber EP, Koopal K, Rhemrev R. (2005) Immunoassays for alkylphenolic pollutants with endocrine disrupting activity. *Intern. J. Environ. Anal. Chem.* 85, 871-883.