



Product Specification Sheet

Phencyclidine (PCP) antibody

□ Cat# PCP11-S

Rabbit anti-PCP antibody

SIZE: 100 µl

Phencyclidine or PCP is a hallucinogen drug which interacts with dopamine, cholinergic, and adrenergic systems. A PCP drug is mostly ingested orally or intravenously. PCP, at moderate amounts can result in psychotic or violent behavior. At higher doses, the drug can cause convulsions, hypertension, prolonged comas, or even death. PVP is metabolized in the liver with about 10% remaining unmetabolized. The FDA cutoff level for PCP drug tests is 25 ng/ml.

Source of Antigen and Antibodies

Host: Rabbit

Clonality: Polyclonal

Immunogen: PCP conjugated to BSA

Purification: N/A

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Negative Control: Non-immune Rabbit IgG (ADI cat# 20009-1).

Form & Storage of Antibodies

□ **Neat sera**

Concentration: N/A

Volume: 100 µl

Supplied as whole sera

□ **Lyophilized powder**

Lyophilized from neat sera. Reconstitute in 100 µl distilled water

Storage:

Short-term: 4°C for 3 months

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

Recommended Usage

ELISA: Assay dependent concentration. 1:20,000 to 1:40,000 using a rabbit antibody capture format. 1:100,000 to 1:400,000 using an indirect competitive test.

Lateral Flow: Assay dependent. Minimum recommended concentration of 5 µg/ml when conjugated to colloidal gold in a salt free buffer at pH 7-9.*Purified IgG fraction can be produced for rapid test conjugation.

IHC/ICC: Assay dependent concentration

The above concentrations are a *suggestion*, user's must optimize the concentrations based on their own use.

****This product is for In vitro research use only.***

Related materials available from ADI

Catalog#	Description
PCP11-M	Monoclonal Anti-Phencyclidine (PCP)
PCP12-M	Monoclonal Anti-Phencyclidine (PCP), clone 1
PCP13-A	Phencyclidine (PCP) BSA
PCP11-S	050820IA



Direct ELISA validation of TCA antibody

A₄₅₀	0.037	1.197	1.058	1.036	0.703	0.334	0.103	0.034
PCP (ng/ml)	NSB	0	0.32	1.6	8	40	200	1,000

Direct ELISA: Goat anti-Rabbit IgG Fc was coated to an ELISA microplate. 50 µl of a 1:15,000 dilution of PCP11-S was added to each well along with 40 µl of PCP-HRP and 10 µl of PCP standards and incubated for 1 hour at room temperature. After 1 hour, the plates were washed and TMB was added and incubated for 15 minutes. The reaction was stopped with Sulfuric Acid and the plate was read at A450 nm.

LOD: The antibody exhibits a sensitivity of ~1 ng/ml.