

Anti-AB-PINACA, synthetic cannabinoid, IgG**Rabbit Polyclonal Antibody
Cat. #1089 Lot Q0000**

LIMITATIONS: THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT APPROVED FOR THERAPEUTIC OR DIAGNOSTIC USE.

Background:

The Tulip BioLabs, Inc. Anti-AB-PINACA, synthetic cannabinoid, Cat. #1089, is a rabbit polyclonal IgG antibody. It has been used in a competitive ELISA format to test the presence of AB-PINACA metabolites and other synthetic cannabinoids. Cross-reactivity of various tested compounds are listed in Table 1. There is high crossreactivity with ADB-PINACA and ADB-FUBINACA parent compounds. An AB-PINACA N-pentanoic acid ELISA standard curve is shown in Figure 1, with a sensitivity of approximately 1ng/mL.

Note: If this antibody is used in an immunoassay to detect synthetic cannabinoids, suspect test samples must be confirmed using an alternative analytical method, for example LC-MS-MS.

Immunogen:

AB-PINACA conjugated to a carrier protein.

Supplied As:

2 mg/ml of protein A purified rabbit IgG in phosphate buffered saline with 0.05% sodium azide preservative.

Storage and Stability:

Stable for 1 year from date of shipment when stored at -20 or -70°C. Stable for at least 1 month at 4°C. Avoid freeze/thaw cycles.

Specificity and Comments:

Recognizes the synthetic cannabinoid AB-PINACA N-5-hydroxy and N-pentanoic acid analogues (metabolites found in human urine), ADB-PINACA, ADB-FUBINACA and other synthetic cannabinoid metabolites (see Table 1).

Applications and Suggested Dilutions:

ELISA (for 96-well plate coating use 1-10µg/mL)
Note: This antibody is used in the Cat. #4800 AB-PINACA Synthetic Cannabinoid ELISA Assay kit. Other methods not tested.

Please note: This information is intended as a guide. The optimal concentrations must be determined by the user.

Tulip BioLabs Other Related Products:

Cat. #4800
AB-PINACA Synth Cannabinoids ELISA Kit.
Cat. #8802
AB-PINACA x HRP Conjugate.
Cat. #1066
Anti-K2/Spice, synthetic cannabinoids, IgG
Cat. #1072
Anti-JWH-250 (K2/Spice), IgG
Cat. #1083
Anti-UR-144/XLR-11 Synthetic Cannabinoid, IgG
Cat. #1086
Anti-PB-22 Synthetic Cannabinoid, IgG
Cat. #1087
Anti-AKB48 Synthetic Cannabinoid, IgG

Original Reference:

N/A

Useful References:

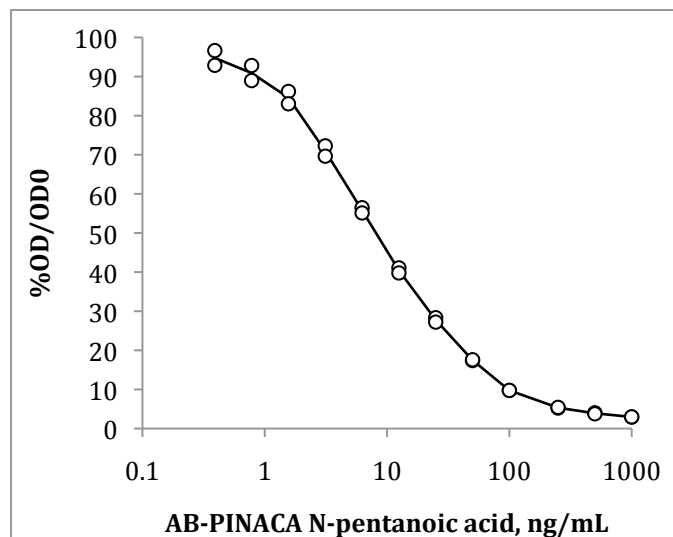
J.W. Huffman and D. Dai (1994) *Bioorg Med Chemistry* 4 563
S. Dresen *et al.* (2010) *J Mass Spectrometry* 45 760
M. Hutter *et al.* (2012) *J Mass Spectrometry* 47 54
A. Wohlfarth *et al.* (2013) *Anal Chem* 85 3730

Table 1. Drug and Metabolite Cross-Reactivity Relative to AB-PINACA N-pentanoic acid

Compound	Cross-reactivity, %
AB-PINACA N-pentanoic acid	100.0
AB-PINACA 5-OH	103.0
ADB-PINACA	96.6
ADB-FUBINACA	81.9
JWH250 -OH	8.1
UR144 N-pentanoic acid	6.6
MAM2201 4-OH	6.0
JWH250 N-pentanoic acid	4.0
JWH018 N-pentanoic acid	3.2
PB22 5-OH	neg
JWH018 -OH	neg
NNEI	neg
AKB48 N-pentanoic acid	neg
UR144 -OH	neg
MN25	neg
AKB48 4-OH	neg
PB22 N-pentanoic acid	neg

Note: AB-PINACA N-pentanoic acid was measured using Tulip Biolabs Cat. #4700 AB-PINACA Synthetic Cannabinoid ELISA Assay Kit . This ELISA incorporates microplates coated with anti-AB-PINACA (Cat. #1089).

Figure 1: AB-PINACA Metabolite Standard Curve



Note: Cross-reactivity was determined using Tulip Biolabs Cat. #4800 AB-PINACA Synthetic Cannabinoid ELISA Assay Kit. This ELISA incorporates microplates coated with anti-AB-PINACA (Cat.#1089).