
**Anti-JWH-250 (K2/Spice)
synthetic cannabinoid, IgG**

**Rabbit Polyclonal Antibody
Catalog #1072 Lot P0710**

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

Background:

The Tulip Biolabs, Inc. Anti-JWH-250 (K2/Spice) synthetic cannabinoid, Cat. #1072, is a rabbit polyclonal IgG antibody. It has been used in a competitive ELISA format to test the presence of JWH-250 and its metabolites in samples such as urine, whole blood, serum, and plasma (see Arntson *et al*, 2013). 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:

JWH-250 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 JWH-250, and several of its metabolites (see attached Table and A. Arntson *et al.* (2013) *J. Analyt. Toxicol.* **37** 284).

Applications and Suggested Dilutions:

ELISA (for 96-well plate coating use 1-3µg/mL)
Note: This antibody is used in the Cat. #4400 JWH-250 (K2/Spice) ELISA 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:

Catalog #4400

JWH-250 (K2/Spice) Synth Cannabinoid ELISA Kit.

Catalog #1066

Anti-JWH-018 (Spice/K2), IgG, rabbit polyclonal antibody.

Catalog #1083

Anti-UR144/XLR11 (Spice/K2), IgG, sheep polyclonal antibody.

Original Reference:

A. Arntson *et al.* (2013) *J. Analyt. Toxicol.* **37** 284
Note: This antibody was developed at Tulip Biolabs, Inc.

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

**Cat. #1072 Anti-JWH-250 (K2/Spice) synthetic cannabinoid Drug and Metabolite
Cross-Reactivity Relative to JWH-250-4-OH (5 ng/mL)**

COMPOUND	Crossreactivity, %
<i>JWH-250-4-OH (calibrator)</i>	100
JWH-250-5-OH	50
JWH-250-N-pentanoic acid metab	50
JWH-250	12
AKB 48	<1
AM-1220	<1
JWH-018-N-5-OH-pentyl metab	<1
JWH-018-5-OH glucuronide	<1
JWH-018-6-OH-indole metab	<1
JWH-018-7-OH-indole metab	<1
JWH-022 C4 keto	<1
JWH-201	<1
JWH-203	<1
JWH-302	<1
RCS-8	<1
RCS-8 4-methoxy isomer	<1

Note: Cross-reactivity was determined using Catalog #4400 JWH-250 (K2/Spice) Synth Cannabinoid ELISA Kit. For additional cross-reactivity data see A. Arntson *et al.* (2013) *J. Analyt. Toxicol.* **37** 284.