
**Anti-UR144/XLR11 (K2/Spice),
synthetic cannabinoids, IgG**

**Sheep Polyclonal Antibody
Catalog #1083 Lot P0712**

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

Background:

The Tulip BioLabs, Inc. Anti-UR144/XLR11 (K2/Spice), synthetic cannabinoids, Cat. #1083, is a sheep polyclonal IgG antibody. It has been used in a competitive ELISA format to test the presence of UR144 and XLR11 and their metabolites in samples such as urine, whole blood, serum, and plasma. 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:

UR-144 conjugated to a carrier protein.

Supplied As:

2 mg/ml of protein G purified sheep 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 cannabinoids UR-144 and XLR-11 and several of their metabolites (see attached table).

Applications and Suggested Dilutions:

ELISA (for 96-well plate coating use 1-3µg/mL)

Note: This antibody is used in the Cat. #4500 UR-144/XLR-11 (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 #4500

UR-144/XLR-11 (K2/Spice) Synth Cannabinoids ELISA Kit.

Catalog #1066

Anti-K2/Spice, synthetic cannabinoids, IgG, rabbit polyclonal antibody.

Catalog #1072

Anti-JWH-250 (K2/Spice), IgG, rabbit polyclonal antibody.

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

**Cat. #1083 Anti-UR144/XLR11 (K2/Spice) Drug and Metabolite Cross-Reactivity
Relative to UR-144-5-OH (5 ng/mL)**

COMPOUND	Cross-reactivity, %
<i>UR-144-5-OH (calibrator)</i>	100
UR-144 N-pentanoic acid	100
UR-144-4-OH	50
XLR-11 4-OH	50
XLR-11	8
UR-144	6
JWH-018 5-OH	neg
JWH-250 4-OH	neg
JWH-250 5-OH	neg
JWH-018	neg
AM2201	neg
Win 55-212-3	neg
RCS-4 Desmethyl-4-OH	neg
JWH-081 Desmethyl-4-OH	neg
JWH-081 Desmethyl-5-OH	neg
JWH-250 4-OH	neg
JWH-018 5-OH	neg
JWH-210 4-OH	neg
JWH-022 3-OH	neg
JWH-022 5-OH	neg
JWH-210 5-OH	neg
JWH-019 6-OH Hexyl	neg
JWH-073 3-OH Hexyl	neg
JWH-122 4-OH	neg
JWH-019 5-OH	neg
AM2201 4-OH	neg
JWH-073 4-OH	neg
JWH-018 4-OH	neg
JWH-122 5-OH	neg
JWH-018 Adamantyl	neg
JWH-018 5-Chloropentyl	neg
JWH-018 5-OH Glucuronide	neg
EDDP	neg
Methadone	neg
Methamphetamine	neg
Codeine	neg
Morphine	neg
PCP	neg
Cocaine	neg
Benzoylecgonine	neg
THC	neg
THC 11-OH	neg
THC Carboxy	neg
Cannabadiol	neg
MDMA	neg

Note: Cross-reactivity was determined using Cat. #4500 UR-144/XLR-11 (K2/Spice) Synth Cannabinoids ELISA Kit.