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## Datasheet for ABIN6957009 IL12B ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	IL12B
Reactivity:	Dog
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

### Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IL12B in canine serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Interleukin 12B (IL12B)
Sensitivity:	6.1 pg/mL
Components:	<ul> <li>Pre-coated, ready to use 96-well strip plate, flat buttom</li> <li>Plate sealer for 96 wells</li> <li>Reference Standard</li> <li>Standard Diluent</li> </ul>

• Detection Reagent A

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- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

## Target Details

Target:	IL12B
Alternative Name:	Interleukin 12B (IL12B) (IL12B Products)
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation
Application Details	
Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 µL
Assay Time:	3 h
Plate:	Pre-coated

Protocol: 1. Prepare all reagents, samples and standards,

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<ol> <li>Add 100µL standard or sample to each well. Incubate 1 hours at 37 °C,</li> <li>Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,</li> <li>Aspirate and wash 3 times,</li> <li>Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,</li> <li>Aspirate and wash 5 times,</li> <li>Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,</li> <li>Add 50µL Stop Solution. Read at 450nm immediately.</li> </ol> 1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit will not be used up in one time, please only take out strips and reagents for present experiment, and leave the remaining strips and reagents in required condition. 2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a room temperature, shake gently (not to foam). The concentration of the standard in the stoc solution is 1,000pg/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
<ul> <li>4. Aspirate and wash 3 times,</li> <li>5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,</li> <li>6. Aspirate and wash 5 times,</li> <li>7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,</li> <li>8. Add 50µL Stop Solution. Read at 450nm immediately.</li> <li>1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit will not be used up in one time, please only take out strips and reagents for present experiment, and leave the remaining strips and reagents in required condition.</li> <li>2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a room temperature, shake gently (not to foam). The concentration of the standard in the stor solution is 1,000pg/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a</li> </ul>
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solution is 1,000pg/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a
double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
diluted standard such as 1,000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
31.2pg/mL, 15.6pg/mL, and the last microcentrifuge tube with Standard Diluent is the blank
as Opg/mL.
3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake
gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
use. Dilute them to the working concentration 100-fold with Assay Diluent A and B,
respectively.
4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
or distilled water to prepare 600 mL of Wash Solution (1x).
5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.
Note:
1. Making serial dilution in the wells directly is not permitted.
2. Prepare standards within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
are calibrated. It is recommended to suck more than $10\mu$ L for one pipetting.
4. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only
once.
5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
and mix gently until the crystals are completely dissolved.
6. Contaminated water or container for reagent preparation will influence the detection result.
It is recommended to use fresh samples without long storage, otherwise protein degradation

Storage: Storage Comment:	4 °C/-20 °C 1. For unopened kit: All reagents should be stored according to the labels on the vials. The
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
Handling	
Restrictions:	For Research Use only
	Inter-Assay: CV < 12%
-	Intra-Assay: CV < 10%
	CV(%) = SD/meanX100
	target were tested on 3 different plates, 8 replicates in each plate.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level o
	target were tested 20 times on one plate, respectively.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
	• Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular
	recommended dilution factor is for reference only.
	possibilityof causing a deviation due to the introduced chemical substance. The
	If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
	determinecompatibility with the kit.
	<ul><li>samples should be slowly thawed and centrifuged toremove precipitates.</li><li>If the sample type is not specified in the instructions, a preliminary test is necessary to</li></ul>
	3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤

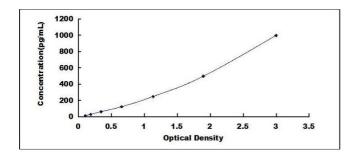
Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C.

2. For opened kits: the remaining reagents must be stored according to the above storage conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.

Expiry Date:

6 months

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#### **ELISA**

Image 1. Typical standard curve

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