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Datasheet for ABIN6975190 TGFB1 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	TGFB1
Reactivity:	Horse
Method Type:	Competition ELISA
Detection Range:	3.12 pg/mL - 200 pg/mL
Minimum Detection Limit:	3.12 pg/mL
Application:	ELISA

Product Details

Purpose:	For the quantitative determination of horse transforming growth factor beta-1(TGFB1) concentrations in serum, plasma.
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of horse TGFB1. No significant cross-reactivity or interference between horse TGFB1 and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between horse TGFB1 and all the analogues, therefore, cross reaction may still exist.
Sensitivity:	1.56 pg/mL

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Product Details

Components:

- Assay plate
- Standard
- HRP-conjugate (100 x concentrate)
- Sample Diluent
- HRP-conjugate Diluent
- Wash Buffer (25 x concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip
- Stop Solution
- Adhesive Strip

Target Details

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Target:	TGFB1
Alternative Name:	transforming growth factor, beta 1 (TGFB1 Products)
Background:	Abbreviation: TGFB1 Alias: CED, DPD1, LAP, TGFB, TGFbeta, TGF-beta 1 protein latency-associated peptide
UniProt:	019011
Pathways:	EGFR Signaling Pathway, Dopaminergic Neurogenesis, Cellular Response to Molecule of Bacterial Origin, Glycosaminoglycan Metabolic Process, Regulation of Leukocyte Mediated Immunity, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus, Autophagy, Cancer Immune Checkpoints

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	50 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	 Prepare reagents, samples and standards as instructed. Set a Blank well without any solution.

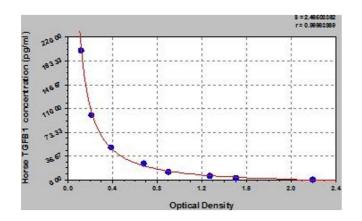
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	 Add 50 μL standard or sample to each well. Add 50 μL HRP-conjugate (1x) to each well (Not to Blank well). Incubate 1 hour at 37 °C Aspirate and wash 5 times. Add 90 μL of TMB Substrate to each well. Incubate for 20 minutes at 37 °C. Protect from light. Add 50 μL Stop Solution to each well. Read at 450 nm within 5 minutes.
Reagent Preparation:	 HRP-conjugate (1x) - Centrifuge the vial before opening. HRP-conjugate requires a 100-fold dilution. A suggested 100-fold dilution is 10 μL of HRP-conjugate + 990 μL of HRP-conjugate Diluent. Wash Buffer(1x)- If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x). Standard Centrifuge the standard vial at 6000-10000rpm for 30s before opening. Dilute the Standard(10x) with Sample Diluent. A suggested 10-fold dilution is 30 μL of Standard(10x) + 270 μL of Sample Diluent. This diluted Standard (S7) serves as the high standard (200 pg/mL). Do not substitute other diluents. Mix the standard to ensure complete dilution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 150 μL of Sample Diluent into each tube (S0-S6). Use the diluted Standard (S7) solution to produce a 2-fold dilution series (below). Mix each tube thoroughly before the next transfer. Sample Diluent serves as the zero standard (0 pg/mL).
	 Note: Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit. Bring all reagents to room temperature (18-25 °C) before use for 30 min. Prepare fresh standard for each assay. Use within 4 hours and discard after use. Making serial dilution in the wells directly is not permitted. Distilled water is recommended to be used to make the preparation for reagents. Contaminated water or container for reagent preparation will influence the detection result.
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit. If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The recommended dilution factor is for reference only. 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

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Application Detailo	
	experiment has to be determined. Samples should then be diluted with PBS (pH = $7.0-7.2$).
	Note:
	Recommend to dilute the serum or plasma samples with Sample Diluent(1:500) before test.
	The suggested 500-fold dilution can be achieved by adding 5 μL sample to 95 μL of Sample
	Diluent first, then complete the 500-fold dilution by adding 10 μL of this solution to 240 μL of
	Sample Diluent. The recommended dilution factor is for reference only. The optimal dilution
	factor should be determined by users according to their particular experiments. 6
Assay Precision:	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known
	concentration were tested twenty times on one plate to assess.
	Inter-assay Precision (Precision between assays): CV%<10% Three samples of known
	concentration were tested in twenty assays to assess.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage Comment:	Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for
	up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and
	avoid the damp. Standard May be stored for up to 1 month at 2 - 8° C. If don't make recent use,
	better keep it store at HRP-conjugate -20°C. Opened kit HRP-conjugate Diluent Sample Diluent
	May be stored for up to 1 month at 2 - 8°C. Wash Buffer TMB Substrate Stop Solution *Provided
	this is within the expiration date of the kit.
Expiry Date:	6 months
Publications	
Product cited in:	Cheng, Wang, Dong, Pan, Wang, Han, Han, Yang: "Elevated serum brain natriuretic peptide and
	matrix metalloproteinases 2 and 9 in Wilson's disease." in: Metabolic brain disease, Vol. 30,
	Issue 4, pp. 1087-91, (2015) (PubMed).
	Uhl, Vierkotten, Wagner, Burgstaller, Costa, Koch, Lindner, Meiners, Eickelberg, Königshoff: "
	Preclinical validation and imaging of Wnt-induced repair in human 3D lung tissue cultures." in:
	The European respiratory journal, (2015) (PubMed).

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ELISA

Image 1. Typical Standard Curve

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