## .-online.com antibodies

# Datasheet for ABIN6574277 ENO1 ELISA Kit

4 Images

5 Publications



#### Overview

Quantity:	96 tests	
Target:	EN01	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Detection Range:	0.31 ng/mL - 20 ng/mL	
Minimum Detection Limit:	0.31 ng/mL	
Application:	ELISA	
Product Details		
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NNE in	
	human serum, plasma.	
	We offer <b>validation data</b> (WB) for the kit components. So you can be sure to order a reliable	
	ELISA kit product composed of high quality reagents.	
Sample Type:	Plasma, Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of Enolase 1 (ENO1)	
Cross-Reactivity (Details):	No significant cross-reactivity or interference between Enolase, Non Neuronal (NNE) and	
	analogues was observed.	
Sensitivity:	0.128 ng/mL	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/6 | Product datasheet for ABIN6574277 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

## Product Details

#### Components:

- Pre-coated, ready to use 96-well strip plate, flat buttom
- Plate sealer for 96 wells
- Reference Standard
- Standard Diluent
- Detection Reagent A
- 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:	EN01
Abstract:	ENO1 Products
UniProt:	P06733

## 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 v	
	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	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/6 | Product datasheet for ABIN6574277 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

## Application Details

Protocol:	1. Prepare all reagents, samples and standards,		
	2. Add 100µL standard or sample to each well. Incubate 1 hours at 37 °C,		
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37 °C,		
	4. Aspirate and wash 3 times,		
	5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,		
	6. Aspirate and wash 5 times,		
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,		
	8. Add 50µL Stop Solution. Read at 450nm immediately.		
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use.		
	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 40 ng/mL. Firstly dilute the stock solution to 20 ng/mL and the diluted standard		
	serves as the highest standard (20 ng/mL). Then prepare 7 tubes containing 0.5 mL		
	Standard Diluent and use the diluted standard to produce a double dilution series. Mix each		
	tube thoroughly before the next transfer. Set up 7 points of diluted standard such as		
	20 ng/mL, 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL, 0.312 ng/mL, and the		
	last microcentrifuge tube with Standard Diluent is the blank as 0 ng/mL.		
	3. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection		
	A and Detection B before use. Dilute to the working concentration with Assay Diluent A and E respectively (1:100).		
	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 standard 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 once pipetting.		
	<ol> <li>The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used onl once.</li> </ol>		
	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.		
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		

	<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 determinecompatibility with the kit.</li> <li>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.</li> <li>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 experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).</li> </ul>	
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of	
	target were tested 20 times on one plate, respectively.	
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of	
	target were tested on 3 different plates, 8 replicates in each plate.	
	CV(%) = SD/meanX100	
	Intra-Assay: CV < 10%	
	Inter-Assay: CV < 12%	
Restrictions:	For Research Use only	
Handling		
riananig		
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and	
-	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.	
-		
Precaution of Use:	clothing protection when using this material.	
Precaution of Use: Storage: Storage Comment:	<ul> <li>clothing protection when using this material.</li> <li>4 °C/-20 °C</li> <li>1. For unopened kit: All reagents should be stored according to the labels on the vials. The 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.</li> <li>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.</li> </ul>	
Precaution of Use: Storage:	<ul> <li>clothing protection when using this material.</li> <li>4 °C/-20 °C</li> <li>1. For unopened kit: All reagents should be stored according to the labels on the vials. The 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.</li> <li>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</li> </ul>	
Precaution of Use: Storage: Storage Comment:	<ul> <li>clothing protection when using this material.</li> <li>4 °C/-20 °C</li> <li>1. For unopened kit: All reagents should be stored according to the labels on the vials. The 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.</li> <li>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.</li> </ul>	
Precaution of Use: Storage: Storage Comment: Expiry Date:	<ul> <li>clothing protection when using this material.</li> <li>4 °C/-20 °C</li> <li>1. For unopened kit: All reagents should be stored according to the labels on the vials. The 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.</li> <li>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.</li> </ul>	
Precaution of Use: Storage: Storage Comment: Expiry Date: Publications	<ul> <li>clothing protection when using this material.</li> <li>4 °C/-20 °C</li> <li>1. For unopened kit: All reagents should be stored according to the labels on the vials. The 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.</li> <li>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.</li> <li>6 months</li> </ul>	

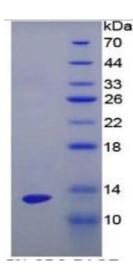
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/6 | Product datasheet for ABIN6574277 | 09/10/2023 | Copyright antibodies-online. All rights reserved. Lai, Li, Mai, Wen, Lv, Xie, Lv, Chen, Wu, Wu: "Annexin A1 is elevated in patients with COPD and affects lung fibroblast function." in: **International journal of chronic obstructive pulmonary disease**, Vol. 13, pp. 473-486, (2018) (PubMed).

Pietrani, Ferreira, Rodrigues, Perucci, Carneiro, Bosco, Oliveira, Pereira, Teixeira, Alvarez-Leite, Ferreira, Sousa, Gomes: "Proresolving protein Annexin A1: The role in type 2 diabetes mellitus and obesity." in: **Biomedicine & pharmacotherapy**, Vol. 103, pp. 482-489, (2018) (PubMed).

Arzouni, Vargas-Seymour, Rackham, Dhadda, Huang, Choudhary, Nardi, King, Jones: " Mesenchymal stromal cells improve human islet function through released products and extracellular matrix." in: **Clinical science (London, England : 1979)**, Vol. 131, Issue 23, pp. 2835-2845, (2017) (PubMed).

Llombart, García-Berrocoso, Bech-Serra, Simats, Bustamante, Giralt, Reverter-Branchat, Canals, Hernández-Guillamon, Montaner: "Characterization of secretomes from a human blood brain barrier endothelial cells in-vitro model after ischemia by stable isotope labeling with aminoacids in cell culture (SILAC)." in: **Journal of proteomics**, Vol. 133, pp. 100-12, (2016) (PubMed).

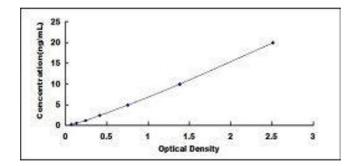
#### Images

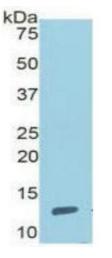


#### SDS-PAGE

**Image 1.** SDS-PAGE of Protein Standard from the Kit (Highly purified E. coli-expressed recombinant human ENO1).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 5/6 | Product datasheet for ABIN6574277 | 09/10/2023 | Copyright antibodies-online. All rights reserved.





#### ELISA

Image 2. Typical standard curve

Western Blotting				
Image 3.	WB of Protein	Standard: different control		
antibodies	against Highly	purified E. coli-expressed		
recombinant human ENO1.				

Please check the product details page for more images. Overall 4 images are available for ABIN6574277.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 6/6 | Product datasheet for ABIN6574277 | 09/10/2023 | Copyright antibodies-online. All rights reserved.