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Datasheet for ABIN1981720 ERBB3 ELISA Kit

3 Images



Overview

Quantity:	96 tests
Target:	ERBB3
Binding Specificity:	pTyr
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Phosphotyrosine Erb-B3 ELISA Kit. This assay semi-quantitatively measures phosphotyrosine Erb-B3 in lysate samples.				
Sample Type:	Cell Lysate, Tissue Lysate				
Analytical Method:	Semi-Quantitative				
Detection Method:	Colorimetric				
Specificity:	The antibody pair provided in this kit recognizes Human Tyrosine-Phosphorylated-Erb-B3.				
Characteristics:	 Rapidly measure phosphorylated protein in lysates Screen numerous different cell lysates without performing a Western Blot analysis Minimal hands-on time, convenient, and non-radioactive material 				
Components:	 Pre-Coated 96-well Strip Microplate Wash Buffer Biotinylated Anti-Phosphotyrosine Antibody Stop Solution 				

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	 Assay Diluent(s) Positive Control Sample Lysis Buffer Streptavidin-Conjugated HRP TMB One-Step Substrate
Material not included:	 Distilled or deionized water 100 mL and 1 liter graduated cylinders Tubes to prepare sample dilutions Protease and Phosphatase inhibitors Precision pipettes to deliver 2 µL to 1 mL volumes Adjustable 1-25 mL pipettes for reagent preparation Benchtop rocker or shaker Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target:	ERBB3
Alternative Name:	ErbB3 (ERBB3 Products)
Gene ID:	2065
UniProt:	P21860
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual.
	2. Add 100 μ L of sample or positive control to each well.
	3. Incubate 2.5 h at RT or O/N at 4 °C.
	4. Add 100 μL of prepared primary antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 μ L of prepared 1X HRP-Streptavidin to each well.
	7. Incubate 1 h at RT.
	8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 µL of Stop Solution to each well.

	11. Read at 450 nm immediately.
Reagent Preparation:	1. Bring all reagents and samples to room temperature (18 - 25 °C) before use.
	2. Item E, Assay Diluent should be diluted 5-fold with deionized or distilled water before use.
	3. Preparation of Positive Control: Briefly spin the Positive Control vial of Item K. Add 400 μ L 1x
	Assay Diluent (Item E, Assay Diluent should be diluted 5-fold with deionized or distilled water
	before use) into Item K vial to prepare P-1 (See i. Positive control of part IX.for a typical result).
	Dissolve the powder thoroughly by a gentle mix. Pipette 300 μ L 1x Assay Diluent into each tube
	Transfer 150 μ L prepared P-1 into a tube with 300 μ L 1x Asaay Diluent to produce a dilution
	series (shown below). Mix each tube thoroughly before the next transfer. 1x Assay Diluent
	serves as the background. Phospho-ErbB3 ELISA 6
	4. If the Wash Concentrate (20x) (Item B) contains visible crystals, warm to room temperature
	and mix gently until dissolved. Dilute 20 mL of Wash Buffer Concentrate into deionized or
	distilled water to yield 400 mL of 1x Wash Buffer.
	5. Briefly spin the biotinylated antibody (Item C) before use. Add 100 μ L of 1x Assay Diluent into
	the vial to prepare a biotinylated anti-phosphotyrosine antibody concentrate. Pipette up and
	down to mix gently (the concentrate can be stored at 4 °C for 5 days or at -80 °C for one
	month). The biotinylated phosphotyrosine antibody should be diluted with 1x Assay Diuent and
	used in step 4 of Part VII Assay Procedure.
	6. Briefly spin the HRP-Streptavidin concentrate vial (Item G) and pipette up and down to mix
	gently before use. HRP-Streptavidin concentrate should be diluted 600 fold with 1x Assay
	Diluent. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add
	20 μ L of HRP-Streptavidin concentrate into a tube with 12 mL 1x Assay Diluent to prepare a
	600-fold diluted HRP-Streptavidin solution (don't store the diluted solution for next P-1 P-2 P-3
	P-4 P-5 0 150 μL Positive Control 400 μL 1x Assay Diluent 150μl 150 μL 150 μL Phospho-ErbB3
	ELISA 7 day use). Mix well.
	7. Cell Lysate Buffer should be diluted 2-fold with deionized or distilled water before use
	(recommend to add protease and phosphatase inhibitors). VII.
Sample Preparation:	Cell lysates - Rinse cells with PBS, making sure to remove any remaining PBS before adding the
	lysis buffer. Solubilize cells at 4 x 107 cells/mL in 1x Lysis Buffer (we recommend adding
	protease and phosphatase inhibitors to lysis buffer prior to sample preparation). Pipette up and
	down to resuspend and incubate the lysates with shaking at 2 - 8° C for 30 minutes.
	Microcentrifuge at 13,000 rpm for 10 minutes at 2 - 8° C, and transfer the supernates into a

For the initial experiment, we recommend to do a serial dilution testing such as 5-fold and 100-Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn

repeated freeze-thaw cycles. Thawed lysates should be kept on ice prior to use.

clean test tube. Lysates should be used immediately or aliquoted and stored at -70 °C. Avoid

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	fold dilution for your cell lysates with Assay Diluent (Item E) before use.
	Note: The fold dilution of sample used depends on the abundance of phosphorylated proteins
	and should be determined empiricallys. Phospho-ErbB3 ELISA 5 More of the sample can be
	used if signals are too weak. If signals are too strong, the sample can be diluted further.
	Cell lysate buffer should be diluted 2-fold with deionized or distilled water before use
	(recommend to add protease and phosphatase inhibitors).
Assay Procedure:	1. Bring all reagents to room temperature (18 - 25 °C) before use. It is recommended that all
	samples or Positive Control should be run at least in duplicate.
	2. Add 100 μ L of each sample or positive control into appropriate wells. Cover well with plate
	holder and incubate for 2.5 hours at room temperature or over night at 4 $^\circ$ C with shaking.
	3. Discard the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with
	Wash Buffer (300 μ L) using a multi-channel pipette or autowasher. Complete removal of liquid
	at each step is essential to good performance. After the last wash, remove any remaining Wash
	Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.
	4. Add 100 μ L of prepared 1X biotinylated anti-phosphotyrosine antibody (Reagent Preparation
	step 5) to each well. Incubate for 1 hour at room temperature with shaking.
	5. Discard the solution. Repeat the wash as in step3. Phospho-ErbB3 ELISA 8
	6. Add 100 μ L of prepared 1X HRP-Streptavidin solution (see Reagent Preparation step 6) to
	each well. Incubate for 45 minutes at room temperature with shaking.
	7. Discard the solution. Repeat the wash as in step3.
	8. Add 100 μ L of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30
	minutes at room temperature in the dark with shaking.
	9. Add 50 μL of Stop Solution (Item I) to each well. Read at 450 nm immediately.
Calculation of Results:	ELISA data analysis: Average the duplicate readings for each sample or positive control then
	subtract the average blank optical density.
	i. Positive Control A431 cells were treated with recombinant human EGF at 37 °C for 10 min.
	Solubilize cells at 4 x 107 cells/mL in lysis buffer. Serial dilutions of lysates were analyzed in
	this ELISA. Please see step 3 of Part VI Reagent Preparation for detail. 0 0.5 1 1.5 2 OD =4 50 n
	m P-1 P-2 P-3 P-4 P-5 Positive control dilution series Assay Diluent Phospho-ErbB3 ELISA 10
	ii. Recombinant Human EGF Stimulation of A431 Cell Lines A431 cells were treated or
	untreated with 100 ng/mL recombinant human EGF for 10 min. Cell lysates were analyzed
	using this phosphoELISA: 0 1 2 3 Untreated EGF treated OD = 4 50 n m Phospho-ErbB3 ELISA
	11 X

Restrictions:

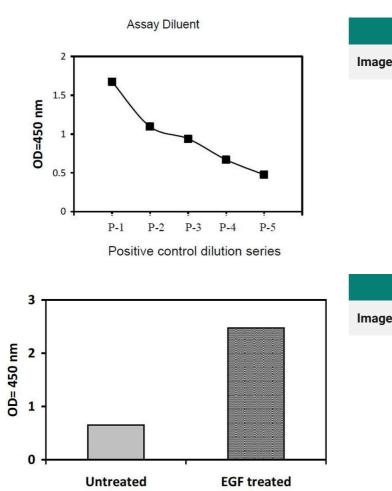
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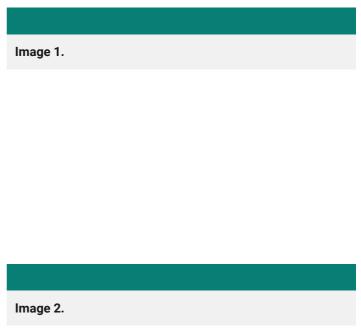
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Handling

Handling Advice:	Avoid repeated freeze- thaw cycles.
Storage:	-20 °C
Storage Comment:	Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of
	shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-
	Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell
	Lysate Buffer (Item J) should be stored at 4 °C to avoid repeated freeze-thaw cycles. Return
	unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20
	°C. Reconstituted Positive Control (Item K) should be stored at -70 °C.
Expiry Date:	6 months

Images





Positive Control + 400 µl 1x Assay Diluent	150µl	150 µl	150 µl	150 µl	
	Da	DC	D	D	
			$\left(\right)$		
	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
P-1	P-2	P-3	P-4	P-5	0

Image 3. This picture shows the preparation of the positive control.

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