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Datasheet for ABIN2747920
ZAP70 ELISA Kit

Overview

Quantity:	96 tests
Target:	ZAP70
Binding Specificity:	pTyr493, total
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Phospho-ZAP70 (Y493) and Total ZAP70 ELISA Kit. This assay semi-quantitatively measures phosphorylated ZAP70 (Tyr493) and Total ZAP70 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 ZAP70 phosphorylated at site Tyrosine-493 and Total ZAP70.
Characteristics:	<ul style="list-style-type: none">• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)• Screen numerous different cell lysates without performing a Western Blot analysis• Minimal hands-on time, convenient, and non-radioactive material
Components:	<ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer

Product Details

- Anti-Phospho Antibody
- Anti-Pan Antibody
- HRP-Conjugated Secondary Antibody
- Streptavidin-Conjugated HRP
- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

Material not included:	<ul style="list-style-type: none">• 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
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Target Details

Target:	ZAP70
Alternative Name:	ZAP70 (ZAP70 Products)
Background:	Zeta-chain associated protein kinase 70 (ZAP70) phosphorylated at Tyrosine-493 and Total ZAP70
Gene ID:	22637
UniProt:	P43403
Pathways:	TCR Signaling , Ubiquitin Proteasome Pathway

Application Details

Sample Volume:	100 μ L
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare all reagents and samples as instructed in the manual.2. Add 100 μL of sample or positive control to each well.3. Incubate 2.5 h at RT or O/N at 4 $^{\circ}$C.4. Add 100 μL of prepared primary antibody to each well.5. Incubate 1 h at RT.

Application Details

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 μ L of Stop Solution to each well.
11. Read at 450 nm immediately.

Assay Procedure: Prepare all reagents and samples as instructed in the manual.

Add 100 μ L of sample or positive control to each well.

Incubate 2.5 h at RT or O/N at 4 °C.

Add 100 μ L of prepared primary antibody to each well.

Incubate 1 h at RT.

Add 100 μ L of prepared 1X HRP-Streptavidin to each well.

Incubate 1 h at RT.

Add 100 μ L of TMB One-Step Substrate Reagent to each well.

Incubate 30 min at RT.

Add 50 μ L of Stop Solution to each well.

Read at 450 nm immediately.

Restrictions: For Research Use only

Handling

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