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JAK1 ELISA Kit



Publication



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Quantity: Target: Binding Specificity:	96 tests JAK1 pThr246, total	
Binding Specificity:	pThr246, total	
Reactivity:	Human, Rat, Mouse	
Method Type:	Sandwich ELISA	
Application:	ELISA	
Product Details		
Purpose:	Human Phospho-PRAS40 (T246) & Total PRAS40 ELISA Kit. This assay semi-quantitatively measures phophorylated PRAS40 (Thr246) & Total PRAS40 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 JAK1 phosphorylated at site Tyrosine 1022 and total JAK1	
Characteristics:	 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:	Pre-Coated 96-well Strip MicroplateWash Buffer	

- · 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:

- · 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:	JAK1	
Alternative Name:	JAK1 (JAK1 Products)	
Gene ID:	3716	
UniProt:	P23458	
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Hepatitis C, Toll-Like	
	Receptors Cascades, Unfolded Protein Response	

Application Details

Sample Volume:	100 μL	
Plate:	Pre-coated Pre-coated	
Protocol:	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 °C.	
	4. Add 100 μL of prepared primary antibody to each well.	
	5. Incubate 1 h at RT.	
	6. Add 100 μL of prepared 1X HRP-Streptavidin to each well.	

Application Details

- 7. Incubate 1 h at RT.
- 8. Add 100 µL 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.

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

Publications

Product cited in:

Al-Gayyar, Al Youssef, Sherif, Shams, Abbas: "Protective effects of arjunolic acid against cardiac toxicity induced by oral sodium nitrite: effects on cytokine balance and apoptosis." in: **Life sciences**, Vol. 111, Issue 1-2, pp. 18-26, (2014) (PubMed).