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Datasheet for ABIN4886156

JAK2 ELISA Kit

Overview Quantity:

96 tests

Target:

JAK2

Binding Specificity:

pTyr

Reactivity:

Human

Method Type:

Sandwich ELISA

Application:

ELISA

Product Details

Purpose:

 $\hbox{Human Phosphotyrosine JAK2 ELISA Kit. This assay semi-quantitatively measures} \\$

phosphotyrosine JAK2 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-JAK2.

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

Product Details

- 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:	JAK2
Alternative Name:	JAK2 (JAK2 Products)
Gene ID:	3717
UniProt:	060674
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Positive Regulation of Peptide Hormone Secretion, Intracellular Steroid Hormone Receptor Signaling Pathway, Response to Growth Hormone Stimulus, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, CXCR4-mediated Signaling Events, Platelet-derived growth Factor Receptor Signaling, Unfolded Protein Response

Application Details

Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	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.
	7. Incubate 1 h at RT.

Application Details

Expiry Date:

6 months

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.