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Datasheet for ABIN6730481
ERK2 ELISA Kit

Overview

Quantity:	96 tests
Target:	ERK2 (MAPK1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human MAPK1/ERK2 ELISA Kit.
Sample Type:	Cell Culture Supernatant, Cell Samples, Plasma, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA antibody pair recognizes Human MAPK1.
Characteristics:	<ul style="list-style-type: none">• Strip plates and additional reagents allow for use in multiple experiments• Quantitative protein detection• Establishes normal range• The best products for confirmation of antibody array data
Components:	<ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer• Stop Solution• Assay Diluent(s)• Lyophilized Standard• Biotinylated Detection Antibody

Product Details

- Streptavidin-Conjugated HRP
- TMB One-Step Substrate

Material not included:

- Distilled or deionized water
- Precision pipettes to deliver 2 µl to 1 µl volumes
- Adjustable 1-25 µl pipettes for reagent preparation
- 100 µl and 1 liter graduated cylinders
- Tubes to prepare standard and sample dilutions
- Absorbent paper
- Microplate reader capable of measuring absorbance at 450nm
- Log-log graph paper or computer and software for ELISA data analysis

Target Details

Target: ERK2 (MAPK1)

Alternative Name: MAPK1 (ERK2 ([MAPK1 Products](#)))

UniProt: [P28482](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Apoptosis](#), [Interferon-gamma Pathway](#), [Fc-epsilon Receptor Signaling Pathway](#), [Response to Growth Hormone Stimulus](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [Monocarboxylic Acid Catabolic Process](#), [Autophagy](#), [G-protein mediated Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGFR1 Specific Signals](#), [BCR Signaling](#), [S100 Proteins](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Protocol:

1. Prepare all reagents, samples and standards as instructed in the manual.
2. Add 100 µl of standard or sample to each well.
3. Incubate 2.5 h at RT or O/N at 4°C.
4. Add 100 µl of prepared biotin antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 µl of prepared Streptavidin solution to each well.
7. Incubate 45 min 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.

Application Details

Restrictions: For Research Use only

Handling

Storage Comment: The entire kit may be stored at -20°C for up to 1 year from the date of shipment. Avoid repeated freeze-thaw cycles. The kit may be stored at 4°C for up to 6 months. For extended storage, it is recommended to store at -80°C.

Expiry Date: 6 months