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## Datasheet for ABIN2748087

**ERK2 ELISA Kit**

## Overview

Quantity:	96 tests
Target:	ERK2 (MAPK1)
Binding Specificity:	pThr185, pTyr187, total
Reactivity:	Human, Rat, Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

## Product Details

Purpose:	Human/Mouse/Rat Phospho-Erk2 (T185/Y187) and Total ERK2 ELISA Kit. This assay semi-quantitatively measures phosphorylated Erk2 (Thr185/Tyr187) and Total ERK2 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, mouse, or rat Phospho-ERK2 (pThr185/pTyr187) and total ERK2.
Characteristics:	<ul style="list-style-type: none"><li>• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)</li><li>• Screen numerous different cell lysates without performing a Western Blot analysis</li><li>• Minimal hands-on time, convenient, and non-radioactive material</li></ul>
Components:	<ul style="list-style-type: none"><li>• Pre-Coated 96-well Strip Microplate</li></ul>

## Product Details

- Wash 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:	<ul style="list-style-type: none"><li>• Distilled or deionized water</li><li>• 100 mL and 1 liter graduated cylinders</li><li>• Tubes to prepare sample dilutions</li><li>• Protease and Phosphatase inhibitors</li><li>• Precision pipettes to deliver 2 µL to 1 mL volumes</li><li>• Adjustable 1-25 mL pipettes for reagent preparation</li><li>• Benchtop rocker or shaker</li><li>• Microplate reader capable of measuring absorbance at 450 nm</li></ul>
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## Target Details

Target:	ERK2 (MAPK1)
Alternative Name:	Erk2 ( <a href="#">MAPK1 Products</a> )
Background:	ERK2, Mitogen-activated protein kinase 1, MAPK1, p42MAPK
Gene ID:	5594
UniProt:	<a href="#">P28482</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Interferon-gamma Pathway</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a> , <a href="#">Autophagy</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">VEGFR1 Specific Signals</a> , <a href="#">BCR Signaling</a> , <a href="#">S100 Proteins</a>

## Application Details

Sample Volume:	100 µL
Plate:	Pre-coated

## Application Details

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Protocol:	<ol style="list-style-type: none"><li>1. Prepare all reagents and samples as instructed in the manual.</li><li>2. Add 100 µL of sample or positive control to each well.</li><li>3. Incubate 2.5 h at RT or O/N at 4 °C.</li><li>4. Add 100 µL of prepared primary antibody to each well.</li><li>5. Incubate 1 h at RT.</li><li>6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.</li><li>7. Incubate 1 h at RT.</li><li>8. Add 100 µL of TMB One-Step Substrate Reagent to each well.</li><li>9. Incubate 30 min at RT.</li><li>10. Add 50 µL of Stop Solution to each well.</li><li>11. Read at 450 nm immediately.</li></ol>
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Assay Procedure:	<p>Prepare all reagents and samples as instructed in the manual.</p> <p>Add 100 µL of sample or positive control to each well.</p> <p>Incubate 2.5 h at RT or O/N at 4 °C.</p> <p>Add 100 µL of prepared primary antibody to each well.</p> <p>Incubate 1 h at RT.</p> <p>Add 100 µL of prepared 1X HRP-Streptavidin to each well.</p> <p>Incubate 1 h at RT.</p> <p>Add 100 µL of TMB One-Step Substrate Reagent to each well.</p> <p>Incubate 30 min at RT.</p> <p>Add 50 µL of Stop Solution to each well.</p> <p>Read at 450 nm immediately.</p>
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Restrictions:	For Research Use only
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## Handling

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Storage:	-20 °C
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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.
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Expiry Date:	6 months
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