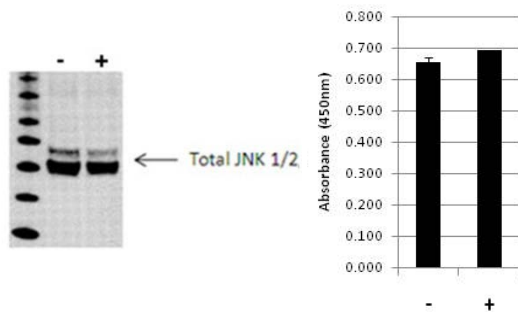


JNK 1/2 (Total) InstantOne ELISA™ Kit

Catalog Number: 85-86196

Also known as: MAPK8, MAPK9, MAPK10

RUO: For Research Use Only. Not for use in diagnostic procedures.



HEK293 cells untreated (-) or treated with 2 ug/mL anisomycin for 30 min (+). Cells were analyzed by immunoblotting (left) and InstantOne ELISA™ (right). The intensity of the bands at 46 and 54 kDa as detected by immunoblot correlates with InstantOne ELISA™ absorption values.

Product Information

Contents: JNK 1/2 (Total) InstantOne ELISA™

REF **Catalog Number:** 85-86196



Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The InstantOne ELISA™ is specifically engineered for accurate measurement of total human and mouse JNK 1/2 in cell lysates. Detection of rat JNK 1/2 is expected. The InstantOne ELISA™ kit allows for fast analysis of samples in approximately one hour. All reagents used in a traditional sandwich ELISA are added in solution to a plate followed by a wash step and detection with the TMB colorimetric substrate.

Jun N-terminal Kinases (JNKs) are members of the Mitogen-Activated Protein Kinase (MAPK) and Stress-Activated Protein Kinase 1 (SAPK1) family. JNK is phosphorylated on the TxY motif at residues Thr183/Tyr185 in response to environmental stress and pro-inflammatory cytokines. This activation results in the phosphorylation of many transcription factors including components of the AP-1 family (e.g., Jun) and ATF2. JNK phosphorylation is also required for Th1 cell differentiation.

Components

User Manual

JNK 1/2 (Total) Capture Antibody Reagent (Part No. IOJNKBCAR1) - 3 mL

JNK 1/2 (Total) Detection Antibody Reagent (Part No. IOJNKBDAR1) - 3 mL

InstantOne™ Assay Plate (Part No. IOAP96) - 96 well (sealed)

Cell Lysis Buffer (5X) (Part No. IOCLB1) - 12 mL

Enhancer Solution (Part No. IOES1) - 1 mL

Wash Buffer (10X) (Part No. IOWB1) - 15 mL

Detection Reagent (TMB Substrate) (Part No. IODR1) - 12 mL

Stop Solution (Part No. IOSS1) - 12 mL

Positive Control Cell Lysate (lyophilized) (Part No. IOJNKPC1) – 0.25 mL

Plate seal - 1 ea

Applications Tested

This assay has been validated for the detection of total human JNK 1/2 in stimulated HEK293 cell lysates. This assay was evaluated for specificity by immunoblot analysis using the same lysates and antibody (data shown above).

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Related Products

85-86195 MAPK Family (ERK, p38, JNK) Activation InstantOne ELISA™

85-86197 phospho-JNK 1/2 (Thr183/Tyr185) InstantOne ELISA™

85-86198 JNK (Total/Phospho) InstantOne ELISA™

IOCLB InstantOne ELISA Cell Lysis Buffer (5X) – 100 mL

IOES InstantOne ELISA Enhancer Solution – 100 mL

IOWB InstantOne ELISA Wash Buffer (10X) – 500 mL