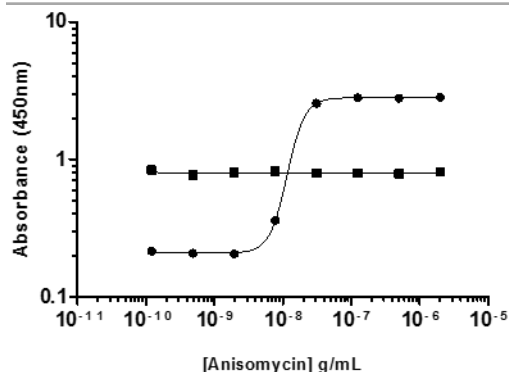


p38 MAPK (Total/Phospho) InstantOne ELISA™ Kit

Catalog Number: 85-86023

Also known as: SAPK2A, MAPK14

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



Lysates from HeLa cells treated with a dose response of anisomycin for 30 min were analysed for Phospho (Thr180/Tyr182) and Total p38 levels by InstantOne ELISA™.

Product Information

Contents: p38 MAPK (Total/Phospho)
InstantOne ELISA™



Catalog Number: 85-86023



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 and phosphorylated human and mouse p38 MAPK in cell lysates. Detection of rat p38 MAPK 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.

p38 MAPKs, also known as the Stress-Activated Protein Kinases (SAPKs), are a sub-family of the JNK/SAP family of MAP Kinases. There are four isoforms of p38 MAPK, denoted alpha (SAPK2A), beta (SAPK2B), gamma (SAPK3b) and delta (SAPK4). Like ERK and JNK, p38 MAP Kinases are activated via phosphorylation of the TxY motif that corresponds to Thr180/Tyr182 for p38alpha. p38 is activated by MEK3 and MKK6 in response to cellular stresses, most notably inflammatory cytokines, irradiation, UV light, osmotic shock, lipopolysaccharides, and toxins such as anisomycin. Once activated, p38 phosphorylates numerous targets, including the transcription factors ATF2 and ELK1 and kinases such as MAPKAPK2. Thus, p38 plays a critical role in the production of cytokines including IL-6, inflammation, cancer, and neurodegenerative diseases.

Components

This (Total/Phospho) kit includes sufficient reagents to perform 48 wells of the total and 48 wells of the phospho-specific detection for a total of 96 wells.

User Manual

p38 MAPK (Total) Capture Antibody Reagent (Part No. IOP38CAR1M) – 1 x 1.5 mL
p38 MAPK (Total) Detection Antibody Reagent (Part No. IOP38DAR1M) – 1 x 1.5 mL
phospho-p38 MAPK (Thr180/Tyr182) Capture Antibody Reagent (Part No. IOPP38CAR1M) – 1 x 1.5 mL
phospho-p38 MAPK (Thr180/Tyr182) Detection Antibody Reagent (Part No. IOPP38DAR1M) – 1 x 1.5 mL
InstantOne™ Assay Plate (Part No. IOAP96) - 96 well (sealed)
Cell Lysis Buffer (5X) (Part No. IOCLB1) - 10 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. IOP38PC1) – 0.25 mL
Plate seal - 1 ea

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Applications Tested

This assay has been validated by ELISA for the detection of total and phosphorylated human p38 MAPK (Thr180/Tyr182) in stimulated HeLa and HEK293 cell lysates.

Related Products

85-86021 p38 MAPK (Total) InstantOne ELISA™

85-86022 phospho-p38 MAPK (Thr180/Tyr182) 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