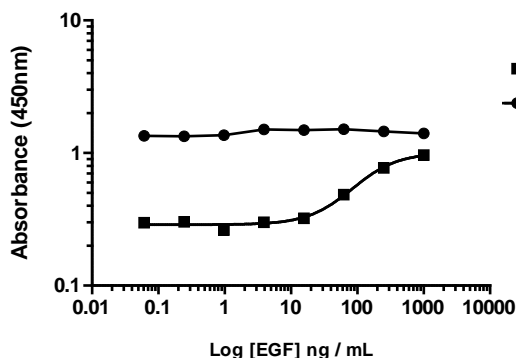


STAT3 (Total) InstantOne ELISA™ Kit

Catalog Number: 85-86101

Also known as: Signal Transducer and Activator of Transcription 3

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



A431 cells were stimulated with EGF at the indicated concentrations for 15 min. Cells were analyzed by InstantOne ELISA™ for either phospho (Tyr701) or total STAT3 using respective kits.

Product Information

Contents: STAT3 (Total) InstantOne ELISA™

Catalog Number: 85-86101



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 STAT3 in cell lysates. Detection of mouse and rat STAT3 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.

STAT3, which exists as STAT3a and STAT3b, is a member of the Signal Transducers and Activators of Transcription family of transcription factors that are activated via phosphorylation by JAK tyrosine kinases of receptor tyrosine kinases in response to various stimuli, including cytokines and growth factors. Phosphorylation at Tyr705 leads to STAT3 dimerization and nuclear translocation. STAT3a, but not STAT3b, is also phosphorylated at Ser727, which enhances its transcriptional activity. STAT3 is believed to be one of the main mediators of IL-6 signaling. Moreover, STAT3 has been linked to cellular activities that are associated with tumor progression. Inhibition of STAT3 results in impaired apoptosis and cell migration, as well as upregulation of genes involved in angiogenesis and immune suppression.

Components

User Manual

STAT3 (Total) Capture Antibody Reagent (Part No. IOSTAT3CAR1) - 3 mL

STAT3 (Total) Detection Antibody Reagent (Part No. IOSTAT3DAR1) - 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. IOSTAT3PC1) – 0.25 mL

Plate seal - 1 ea

Applications Tested

This assay has been validated for the detection of total human STAT3 in stimulated A431 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

14-8984 Mouse EGF Recombinant Protein

14-8988 Human EGF Recombinant Protein

85-86102 phospho-STAT3 (Tyr705) InstantOne ELISA™

85-86103 STAT3 (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