

# Mouse Signal Transducer And Activator Of Transcription 3 (STAT3) ELISA Kit | STAT3 elisa kit

Mouse Signal Transducer And Activator Of Transcription 3 (STAT3) ELISA Kit

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| CATALOG #<br><b>AAA332275</b> | REACTIVITY<br><b>Mouse</b> |
|-------------------------------|----------------------------|

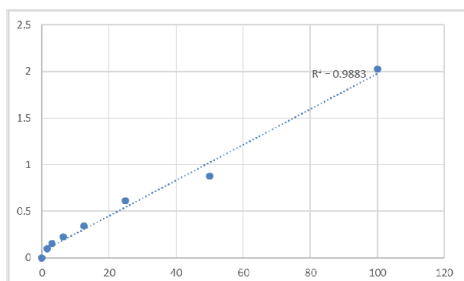
## PRODUCT SYNONYMS

Signal Transducer And Activator Of Transcription 3 (STAT3); Mouse Signal Transducer And Activator Of Transcription 3 (STAT3) ELISA Kit; STAT3; APRF; FLJ20882; HIES; MGC16063; DNA-binding protein APRF; acute-phase response factor; signal transducer and activator of transcription 3; STAT3 elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Mouse Signal transducer and activator of transcription 3 (STAT3) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse STAT3. No significant cross-reactivity or interference between Mouse STAT3 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



Standard Curve (Sample)

Fig.1. Mouse Signal transducer and activator of transcription 3 (STAT3) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for STAT3 elisa kit | <p>Description: This Mouse Signal transducer and activator of transcription 3 (STAT3) ELISA Kit employs a two-site sandwich ELISA to quantitate STAT3 in samples. An antibody specific for STAT3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any STAT3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAT3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of STAT3 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: STAT3, a transcription factor for acute phase response genes, acts as an adaptor molecule in signal transduction from the type I interferon receptor. They found that it binds to a conserved sequence in the cytoplasmic tail of the IFNAR1 chain of the receptor and undergoes interferon-dependent tyrosine phosphorylation. The p85 regulatory subunit of phosphatidylinositol 3-kinase, which activates a series of serine kinases, was found to bind to phosphorylated STAT3 and subsequently to undergo tyrosine phosphorylation. The authors concluded that STAT3 acts as an adaptor to couple another signaling pathway to the interferon receptor. In many human cancers and transformed cell lines, STAT3 is persistently activated, and in cell culture, active STAT3 is either required for transformation, enhances transformation, or blocks apoptosis.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 1711553                                            |
| NCBI GeneID                      | 20848                                              |
| UniProt Accession #              | P42227                                             |
| NCBI Official Full Name          | Signal transducer and activator of transcription 3 |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 3 |
| NCBI Official Symbol             | Stat3                                              |
| NCBI Official Synonym Symbols    | Aprf; AW109958; 1110034C02Rik                      |
| NCBI Protein Information         | signal transducer and activator of transcription 3 |
| UniProt Protein Name             | Signal transducer and activator of transcription 3 |
| UniProt Gene Name                | Stat3                                              |
| UniProt Synonym Gene Names       | Aprf                                               |
| UniProt Entry Name               | STAT3_MOUSE                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/signal-transducer-and-activator-of-transcription-3-stat3/332275>