

## STAT1 elisa kit

STAT1 (Phospho-Tyr701) TFact DNA-Binding ELISA Kit

CATALOG #  
**AAA316015**

REACTIVITY  
**Human, Mouse, Rat**

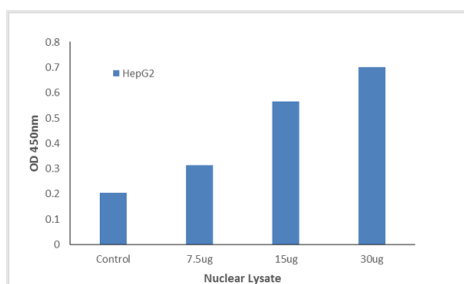
### PRODUCT SYNONYMS

STAT1; STAT1 (Phospho-Tyr701) TFact DNA-Binding ELISA Kit; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84; STAT1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                           |
|-------------------------|-------------------------------------------|
| Reactivity              | Human, Mouse, Rat                         |
| Form/Format             | 12 x 8-Well Microstrips                   |
| Sequence Length         | 750                                       |
| Preparation and Storage | Store entire kit at 4 degree C until use. |

### IMAGES



#### Application Data

The TFact STAT1 (Phospho-Tyr701) DNA-Binding ELISA detects active STAT1 (Phospho-Tyr701) in HepG2 Nuclear Extract. The HepG2 cells were grown 3 days in DMEM with 10% FBS and harvested for nuclear extract.

ADDITIONAL INFORMATION

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|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for STAT1 elisa kit | <p>Principle of the Assay: The TFact™ DNA-Binding ELISA Kit contains components necessary for detection of active transcription factors in eukaryotic nuclear or cell lysates. This particular immunoassay utilizes the qualitative technique of an indirect ELISA. Streptavidin is bound to the immunoassay plate and specific biotinylated double-stranded (dsDNA) oligonucleotides are then added to bind to the streptavidin via a high affinity biotin-streptavidin interaction. After subsequent blocking of extraneous binding sites in each well, the sample containing the target of interest can be added. Primary antibody is added to bind activated transcription factors bound to the dsDNA oligonucleotide, which has been immobilized via the plate-coated streptavidin. A HRP-conjugated secondary antibody specific for rabbit IgGs is added, which allows for specific binding to the Primary Antibody, and consequently colorimetric detection upon addition of the TMB substrate. For color development, TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added to each well. After addition of the substrate, a peroxidase catalyzed reaction will produce a blue TMB Diimine product that is proportional to the target concentration in the sample. Color development is quenched by addition of Stop Solution, or 2 N Sulfuric Acid, which turns the solution yellow. The absorbance can then be read by a spectrophotometer at 450 nm and subsequently allowing for determination of the target concentration in the sample. Currently, the most common methods to detect transcription factor binding to DNA elements and motifs are electrophoretic mobility shift assays (EMSAs), chromatin immunoprecipitation, western blotting, and expression of fused target and reporter genes. These methods are often time consuming, complicated, and make it difficult to achieve satisfactory results. TFact™ DNA-Binding ELISA Kits can significantly reduce the necessary runtime to within one day and eliminate the need for harmful radioactive labeling while maintaining high sensitivity and signal-to-noise ratio. In the past, it was strenuous and inefficient to perform high-throughput screening for hundreds of different samples or transcription factors. Today, our revolutionary TFact™ DNA-Binding ELISA Kits can eliminate these challenges and help expedite the journey from research to publication or product.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| NCBI GI #                        | 6274552                                                                     |
| NCBI GeneID                      | 6772                                                                        |
| NCBI Accession #                 | NP_009330.1                                                                 |
| NCBI GenBank Nucleotide #        | NM_007315.3                                                                 |
| UniProt Accession #              | P42224; Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7      |
| Molecular Weight                 | 83,043 Da                                                                   |
| NCBI Official Full Name          | signal transducer and activator of transcription 1-alpha/beta isoform alpha |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 1                          |
| NCBI Official Symbol             | STAT1                                                                       |
| NCBI Official Synonym Symbols    | CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91                              |
| NCBI Protein Information         | signal transducer and activator of transcription 1-alpha/beta               |
| UniProt Protein Name             | Signal transducer and activator of transcription 1-alpha/beta               |
| UniProt Gene Name                | STAT1                                                                       |

**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/human-mouse-rat-elisa-kits/stat1/316015>