

SP1 elisa kit

SP1 (Phospho-Thr739) Phospho Sandwich ELISA Kit

CATALOG #
AAA318629

REACTIVITY
Human, Mouse, Rat

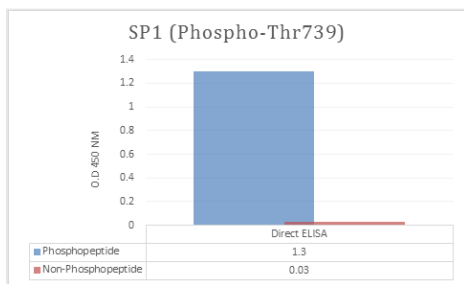
PRODUCT SYNONYMS

SP1; SP1 (Phospho-Thr739) Phospho Sandwich ELISA Kit; Transcription factor SP1; transcription factor Sp1; TSFP1; SP1 elisa kit

PRODUCT SPECIFICATIONS

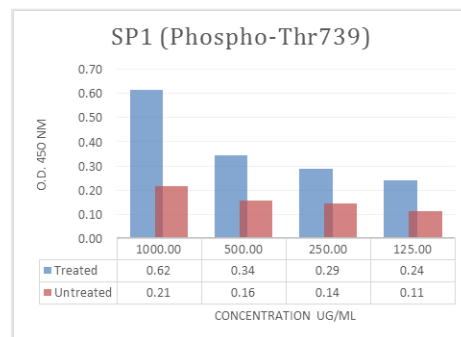
Reactivity	Human, Mouse, Rat
Specificity	The SP1 (Phospho-Thr739) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect SP1 protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated SP1 in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on SP1 phosphorylation.
Sequence Length	737
Assay Type	Quantitative Sandwich
Preparation and Storage	Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.

IMAGES



ELISA

Enzyme-Linked Immunosorbent Assay (ELISA) for immunogen phosphor-peptide (left) and non-phospho peptide (right), using Anti-SP1 (Phospho-Thr739) Antibody.



Application Data

Hek 293 cells were grown to 90% confluency and were stimulated with 20% Serum and incubated for 1 hr. Cells were immediately lysed thereafter and measured for Total Protein Concentration and O.D. 450 nm of SP1 P-Thr739 versus untreated Hek 293 lysates.

ADDITIONAL INFORMATION

Related Product Information for SP1 elisa kit	Principle of the Assay: The Phospho Sandwich SP1 (Phospho-Thr739) ELISA Kit contains the components necessary for semi-quantitative determination of SP1 (Phospho-Thr739) concentrations within experimental cell lysate samples. This particular immunoassay utilizes the traditional "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope SP1 (Phospho-Thr739) while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer where data analysis may begin.
Product Categories/Family for SP1 elisa kit	Phospho Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	352962149
NCBI GeneID	6667
NCBI Accession #	NP_001238754.1
NCBI GenBank Nucleotide #	NP_001238754.1
UniProt Accession #	P08047
NCBI Official Full Name	transcription factor Sp1 isoform c
NCBI Official Synonym Full Names	Sp1 transcription factor
NCBI Official Symbol	SP1
NCBI Protein Information	transcription factor Sp1
UniProt Protein Name	Transcription factor Sp1
UniProt Gene Name	SP1
UniProt Synonym Gene Names	TSFP1
UniProt Entry Name	SP1_HUMAN

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/sp1/318629>