

CREB ELISA Kit | CREB1 elisa kit

CREB (Phospho-Ser133) Phospho Sandwich ELISA Kit

CATALOG #
AAA318621

REACTIVITY
Human, Mouse, Rat

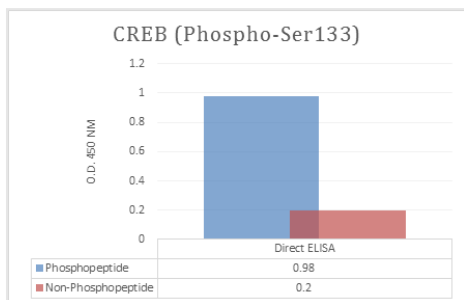
PRODUCT SYNONYMS

CREB; CREB (Phospho-Ser133) Phospho Sandwich ELISA Kit; cAMP responsive element binding protein 1; cAMP-response element binding protein; CREB-1; CREB1; CREB1 elisa kit

PRODUCT SPECIFICATIONS

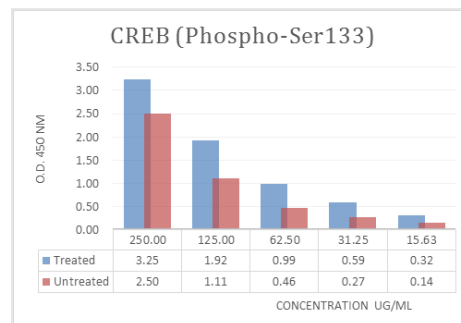
Reactivity	Human, Mouse, Rat
Specificity	The CREB (Phospho-Ser133) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect CREB protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated CREB in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on CREB phosphorylation.
Sequence Length	327
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-CREB (Phospho-Ser133) Antibody.



Application Data

HeLa cells were grown to 90% confluency and stimulated with 30 ng/mL TNF-

ADDITIONAL INFORMATION

Related Product Information for CREB1 elisa kit	Principle of the Assay: The Phospho Sandwich CREB (Phospho-Ser133) ELISA Kit contains the components necessary for semi-quantitative determination of CREB (Phospho-Ser133) 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 CREB (Phospho-Ser133) 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 CREB1 elisa kit	Phospho Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758054
NCBI GeneID	1385
NCBI Accession #	NP_004370.1
NCBI GenBank Nucleotide #	NP_004370.1
UniProt Accession #	P16220
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 1 isoform A
NCBI Official Synonym Full Names	cAMP responsive element binding protein 1
NCBI Official Symbol	CREB1
NCBI Official Synonym Symbols	CREB; CREB-1
NCBI Protein Information	cyclic AMP-responsive element-binding protein 1
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 1
UniProt Gene Name	CREB1
UniProt Synonym Gene Names	CREB-1
UniProt Entry Name	CREB1_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/creb1-human-mouse-rat-elisa-kits/creb/318621>