

IKK-alpha elisa kit

Phospho-IKK-alpha (Ser176) /IKK-beta (Ser177) Colorimetric Cell-Based ELISA Kit

CATALOG #
AAA315571

REACTIVITY
Human, Mouse, Rat

PRODUCT SYNONYMS

IKK-alpha; Phospho-IKK-alpha (Ser176) /IKK-beta (Ser177) Colorimetric Cell-Based ELISA Kit; CHUK; Conserved helix-loop-helix ubiquitous kinase; I kappa-B kinase alpha; I-kappa-B kinase 1; IkappaB kinase; IkbKA; IKK-A; IKK1; IKKA; Inhibitor of nuclear factor kappa-B kinase alpha subunit; kinase IKK-alpha; NFKBIKA; Nuclear factor NFkappaB inhibitor kinase alpha; I-kappa-B kinase 2; I-kappa-B-kinase beta; IkbKB; IKK-B; IKK-beta; IKK2; IKKB; kinase IKK-beta; NFKBIKB; Nuclear factor NF-kappa-B inhibitor kinase beta; IKK-alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	The Anti-IKK-alpha (Phospho-Ser176) /IKK-beta (Phospho-Ser177) Antibody is a rabbit polyclonal antibody. It was tested on Western Blots for specificity. The data in Figure 2 shows that a single protein band was detected. This protein band can be blocked by the synthesized immunogen peptide.
Form/Format	Two 96-Well Plates
Sequence Length	745
Samples	Researchers plate their cell line of choice
Assay Type	Phospho Cell-Based ELISA
Sensitivity	>=5000 cells/well
Reactivity Note	Human: S176/S177, Mouse: S176/S177, Rat: S176/S177
Detection Method	Colorimetric 450 nm
Preparation and Storage	Store at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for IKK-alpha elisa kit

Background: The Colorimetric Cell-Based ELISA Kit allows for the detection of various target proteins and the effects that certain stimulation conditions have on target protein expression in different cell lines. Qualitative determination of target protein concentration is achieved by an indirect ELISA format. In essence, the target protein is captured by target-specific primary (1 degree) antibodies while the HRP-conjugated secondary (2 degree) antibodies bind the Fc region of the 1 degree antibody. Through this binding, the HRP enzyme conjugated to the 2 degree antibody can catalyze a colorimetric reaction upon substrate addition. Due to the qualitative nature of the Cell-Based ELISA, multiple normalization methods are described: 1) a monoclonal antibody specific for human GAPDH is included to serve as an internal positive control in normalizing the target absorbance values. 2) Following the colorimetric measurement of HRP activity via substrate addition, the Crystal Violet whole-cell staining method is used to determine cell density. After staining, the results can be analyzed by normalizing the absorbance values to cell amounts, by which the plating difference can be adjusted. 3) If a phosphorylated target is being detected, an antibody against the non- phosphorylated counterpart will be provided for normalization purposes. The absorbance values obtained for the non-phosphorylated target can be used to normalize the absorbance values for the phosphorylated target.

Principle of the Assay: The IKK-alpha (Phospho-Ser176) /IKK-beta (Phospho-Ser177) Cell-Based ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can monitor IKK-alpha / IKK-beta protein phosphorylation and expression profile in cells. The kit can be used for measuring the relative amounts of phosphorylated IKK-alpha / IKK-beta in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on IKK-alpha / IKK-beta phosphorylation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241001
NCBI GeneID	1147
NCBI Accession #	NP_001269.3
NCBI GenBank Nucleotide #	NM_001278.4
UniProt Accession #	O15111; O14666; Q13132; Q5W0I4; Q92467
Molecular Weight	84654; 86564
NCBI Official Full Name	inhibitor of nuclear factor kappa-B kinase subunit alpha isoform 1
NCBI Official Synonym Full Names	conserved helix-loop-helix ubiquitous kinase
NCBI Official Symbol	CHUK
NCBI Official Synonym Symbols	IKK1; IKKA; IKBKA; TCF16; NFKBIKA; IKK-alpha
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit alpha
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit alpha
UniProt Gene Name	CHUK
UniProt Synonym Gene Names	IKKA; TCF16; I-kappa-B kinase alpha; IKK-A; IKK-alpha; Ikbka; IkappaB kinase; IKK1; NFKBIKA; TCF-16

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.