

Akt ELISA Kit | AKT1 elisa kit

Akt (Phospho-Ser473) Phospho Sandwich ELISA Kit

CATALOG # AAA318616	REACTIVITY Human, Mouse, Rat
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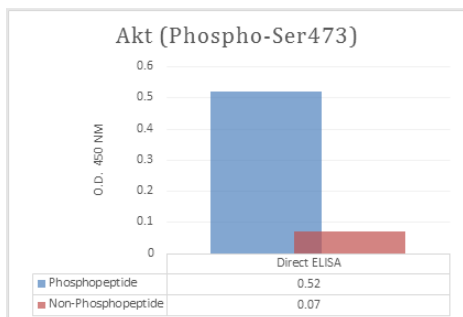
PRODUCT SYNONYMS

Akt; Akt (Phospho-Ser473) Phospho Sandwich ELISA Kit; AKT; AKT1 kinase; C-AKT; kinase Akt1; PKB; PKB-alpha; Protein kinase B; RAC; RAC-alpha serine/threonine kinase; RAC-PK-alpha; AKT1 elisa kit

PRODUCT SPECIFICATIONS

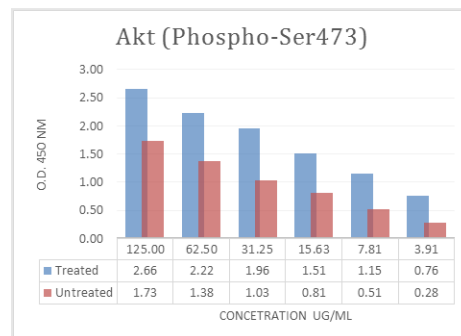
Reactivity	Human, Mouse, Rat
Specificity	The Akt (Phospho-Ser473) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect Akt protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated Akt in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on Akt phosphorylation.
Sequence Length	480
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-Akt (Phospho-Ser473) Antibody.



Application Data

HeLa cells were grown to 90% confluency and were stimulated with EGF 200 ng/mL for 30 minutes. Cells were immediately lysed thereafter and measured for Total Protein Concentration and O.D. 450 nm of Akt P-Ser473 versus untreated HeLa lysates.

ADDITIONAL INFORMATION

Related Product Information for AKT1 elisa kit	Principle of the Assay: The Phospho Sandwich Akt (Phospho-Ser473) ELISA Kit contains the components necessary for semi-quantitative determination of Akt (Phospho-Ser473) 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 Akt (Phospho-Ser473) 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 AKT1 elisa kit	Phospho Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
NCBI GeneID	207
NCBI Accession #	NP_001014431.1
NCBI GenBank Nucleotide #	NP_001014431.1
UniProt Accession #	P31749; P31751; Q9Y243
NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	AKT serine/threonine kinase 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha
UniProt Entry Name	AKT1_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/akt1-human-mouse-rat-elisa-kits/akt/318616>