

PKN2 active protein

Recombinant PKN2 protein

CATALOG #
AAA60340

HOST
Baculovirus

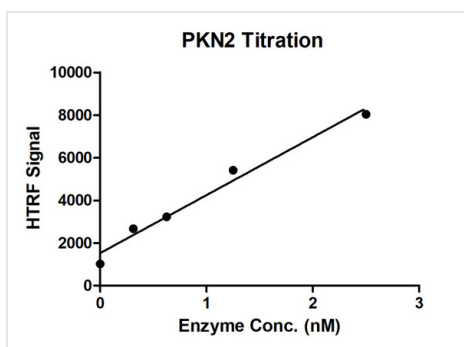
PRODUCT SYNONYMS

PKN2; Recombinant PKN2 protein; Protein Kinase N2; PKN2 active protein

PRODUCT SPECIFICATIONS

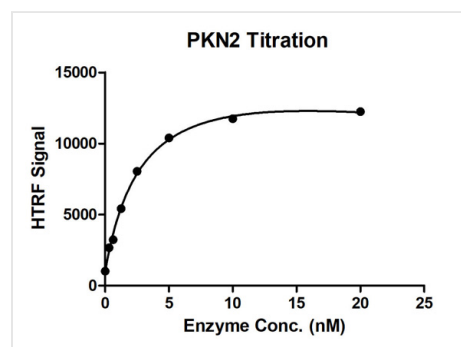
Host	Baculovirus
Purity/Purification	>80%
Form/Format	Recombinant PKN2 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant PKN2 protein was expressed in baculovirus expression system as the full length protein (accession number NP_001307638.1) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 111.6 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



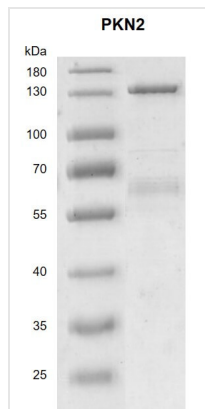
Bioactivity

HTRF Assay for Recombinant PKN2 activity. 1 μ M STK S1 substrate was incubated with different concentrations of PKN2 protein in 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. The 10 μ l detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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HTRF Assay for Recombinant PKN2 activity. 1 μ M STK S1 substrate was incubated with different concentrations of PKN2 protein in 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. The 10 μ l detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant PKN2 protein gel 10% SDS-PAGE gel with Coomassie blue staining MW: 111.6 kDa Purity: >80%

ADDITIONAL INFORMATION

Related Product Information for PKN2 active protein

PKN2 (Protein Kinase N2), a PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. PKN2 plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes. This protein phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin and phosphorylates HDAC5, therefore lead to impair HDAC5 import. PKN2 is required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. It also stimulates FYN kinase activity which is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. PKN2 regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion and inhibits Akt pro-survival-induced kinase activity.

Product Categories/Family for PKN2 active protein

Kinase; Recombinant Proteins

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://www.aaabiotech.com/baculovirus-active-protein/pkn2/60340>