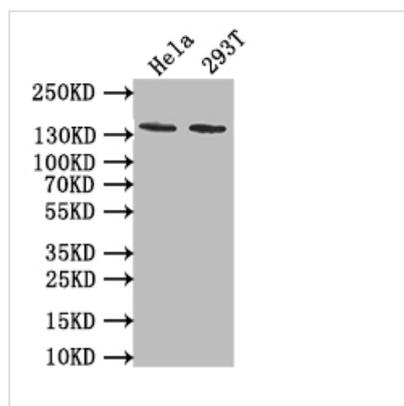




PKN2 Recombinant Monoclonal Antibody

Product Code	CSB-RA056240A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q16513
Immunogen	A synthesized peptide derived from Human PKN2
Species Reactivity	Human
Tested Applications	ELISA, WB, FC; Recommended dilution: WB:1:500-1:2000, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	PKN2
Clone No.	11H3

Image



Western Blot

Positive WB detected in: HeLa whole cell lysate, 293T whole cell lysate

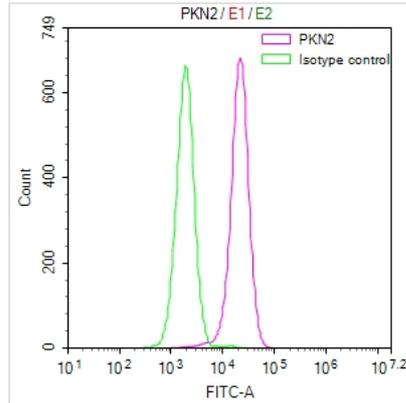
All lanes: EBI3 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 140 kDa

Observed band size: 140 kDa



Overlay Peak curve showing HepG2 cells stained with CSB-RA056240A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1 \times 10^6$ cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG ($1\mu\text{g}/1 \times 10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

To produce the PKN2 recombinant monoclonal antibody, in vitro expression systems are harnessed, involving the cloning of DNA sequences of PKN2 antibodies obtained from immunoreactive rabbits. The immunogen used is a synthesized peptide derived from the human PKN2 protein. Subsequently, the genes encoding the PKN2 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to enable antibody expression. The PKN2 recombinant monoclonal antibody then undergoes affinity-chromatography purification and is extensively tested for functionality in ELISA, WB, and FC applications, confirming its reactivity with the human PKN2 protein.

PKN2 is a multifunctional protein kinase involved in a wide range of cellular processes, including cytoskeletal organization, cell migration, cell proliferation, and signaling pathways. Its diverse roles make it a crucial player in normal cellular physiology and contribute to its relevance in cancer biology and other diseases.