

Product datasheet for **TA343178**

PKN2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Pkn2 antibody is: synthetic peptide directed towards the C-terminal region of Mouse Pkn2. Synthetic peptide located within the following region: LRRNPERRLGAGEKDAEDVKKHPFFRLTDWSALMDKKVKPPFVPTIRGRE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	111 kDa
Gene Name:	protein kinase N2
Database Link:	NP_006247 Entrez Gene 109333 Mouse Q16513



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Background:

Pkn2 is a PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. It 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. Pkn2 phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin, phosphorylates HDAC5, therefore lead to impair HDAC5 import. It is a direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells and is required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. It stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation, regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion, inhibits Akt pro-survival-induced kinase activity. It mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF).

Synonyms:

Pak-2; PAK2; PRK2; PRKCL2; PRO2042; STK7

Note:

Immunogen Sequence Homology: Human: 100%; Dog: 93%; Pig: 93%; Rat: 93%; Horse: 93%; Mouse: 93%; Bovine: 93%; Rabbit: 93%; Zebrafish: 93%; Guinea pig: 93%; Yeast

Protein Families:

Druggable Genome, Protein Kinase

Product images: