

Product datasheet for **AM06663SU-N**

PKN2 Mouse Monoclonal Antibody [Clone ID: 1D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D1
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. Immunohistochemistry on paraffin sections: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human PRK2 expressed in E. Coli.
Specificity:	This antibody reacts to PRK2.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	140 kDa
Gene Name:	protein kinase N2
Database Link:	Entrez Gene 5586 Human Q16513



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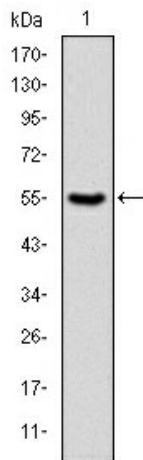
Background:

Protein-kinase-C-related kinases (PRKs) are part of the lipid-regulated protein kinases (PKC) which also include liver PAK & PKN. Human PRK1 and PRK2 share structurally similar catalytic domains, but less similar N-terminal regulatory regions suggesting different regulatory domain functions. PRK1 and PRK2, as well as a third member of this family, PRK3, show distinct patterns of expression in adult tissues. Additionally, the serine-threonine kinase PRK2 can be specifically cleaved by caspase-3 (and/or caspase-3-like subfamily members) during apoptosis.

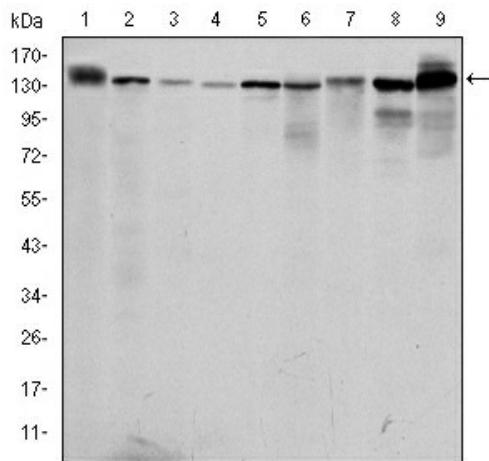
Synonyms:

PRK2, PRKCL2, Protein kinase C-like 2

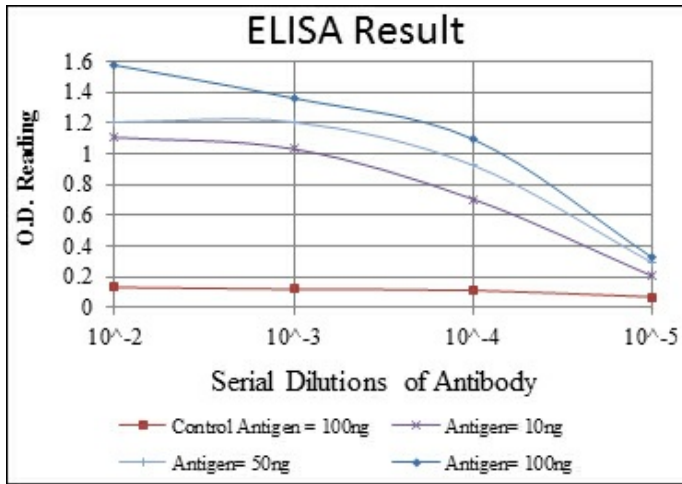
Product images:



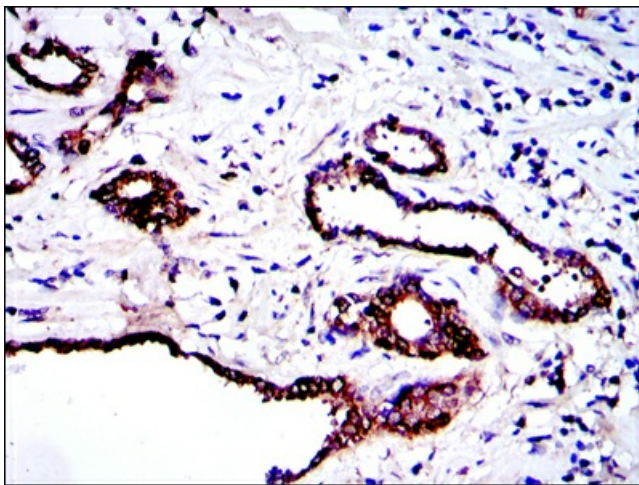
Western blot analysis using PRK2 mAb against human PRK2 (AA: 555-718) recombinant protein. (Expected MW is 43.9 kDa)



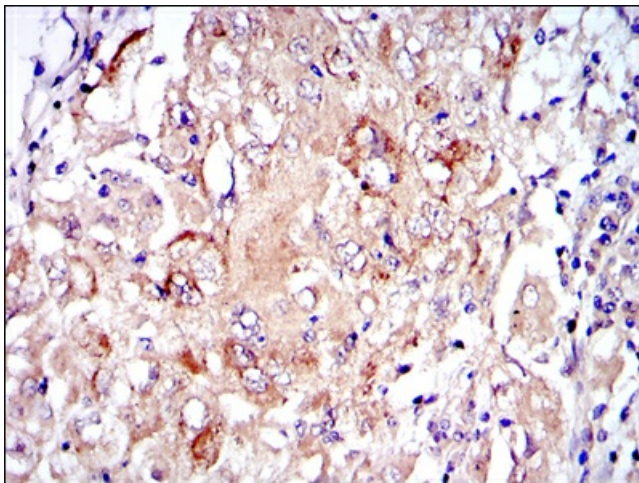
Western blot analysis using PRK2 mouse mAb against PC-12 (1), Cos7 (2), K562 (3), Jurkat (4), HeLa (5), A431 (6), C6 (7), NIH/3T3 (8) and HEK293 (9) cell lysate.



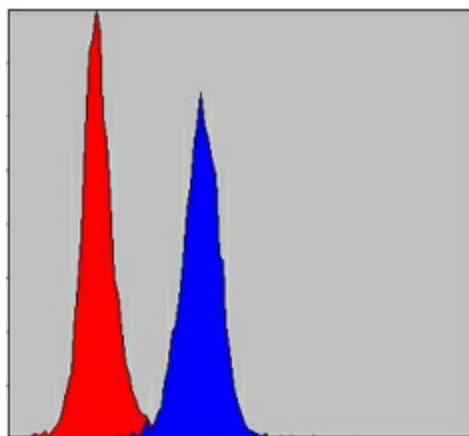
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded prostate tissues using PRK2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded lung cancer tissues using PRK2 mouse mAb with DAB staining.



Flow cytometric analysis of NIH/3T3 cells using PRK2 mouse mAb (blue) and negative control (red).