Anti-PYK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013973

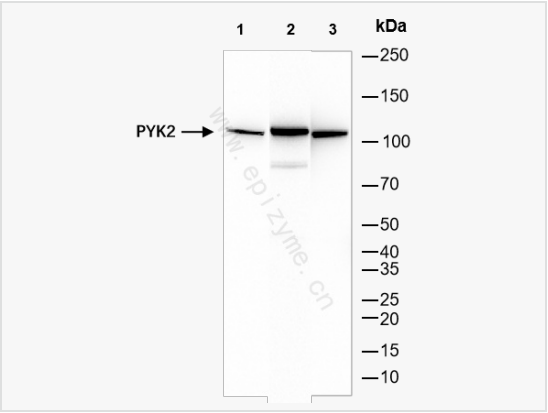
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	27M26C08
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PYK2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PYK2 Rabbit mAb [27M26C08] is for research use only and not for use in diagnostic or therapeutic procedures.

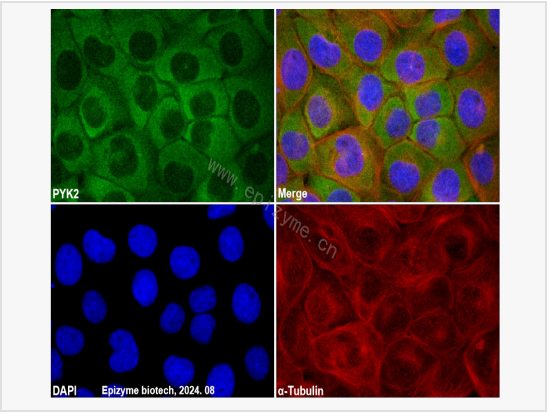
Protein Information

Synonyms	CADTK, CAK-beta, CAKB, CAKbeta, Calcium regulated non receptor proline rich tyrosine kinase, Calcium-dependent tyrosine kinase, Cell adhesion kinase beta, E430023O05Rik, EC 2.7.10.2, FADK 2, FADK2, FAK2, FAK2_HUMAN, Focal adhesion kinase 2, MGC124628, PKB, Proline-rich tyrosine kinase 2, Protein kinase B, Protein Tyrosine Kinase 2 Beta, Protein-tyrosine kinase 2-beta, PTK, PTK2B, PTK2B protein tyrosine kinase 2 beta, PYK2, RAFTK, RAFTK2, Related adhesion focal tyrosine kinase.
Calculated MW	Calculated MW: 116 kDa; Observed MW: 116 kDa
Uniprot ID	Q14289
Gene ID	2185
Background	PYK2 a nonreceptor tyrosine kinase of the Fak family. Predominantly expressed in the cells derived from hematopoietic lineages and in the central nervous system. PYK2 is one of the signaling mediators for G-protein-coupled receptors. Involved in calcium induced regulation of ion channel and activation of the map kinase signaling pathway. Interacts with the SH2 domain of Grb2.
Cellular Location	Cytoplasm. Cell membrane. Interaction with nephrocystin induces the membrane-association of the kinase.
Tissue Location	Most abundant in the brain, with highest levels in amygdala and hippocampus. Low levels in kidney. Also expressed in spleen and lymphocytes.

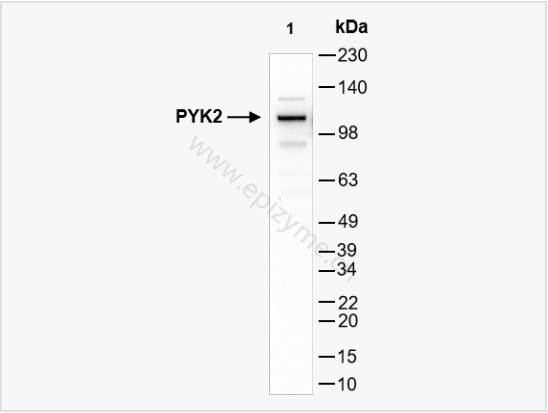
Validation Images



Western Blot - Anti-PYK2 Rabbit mAb [27M26C08]
All lanes: R013973 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 116 kDa
Observed band size: 116 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PYK2 Rabbit mAb [27M26C08]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013973 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot -Anti-PYK2 Rabbit mAb [27M26C08]
All lanes: R013973 at 1:1,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 116 kDa
Observed band size: 116 kDa
Developed using the ECL technique (Cat. No. SQ201).