

## Mouse Ptk2b Antibody (P851)

Catalog_no :	AB3411
Reactivity :	Μ
Category :	抗原抗体
Size :	100µL/50µL
Immunogen :	HUMAN
Specificity :	This Mouse Ptk2b antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 851-885 amino acids from Mouse Ptk2b.
Dilution :	WB,1:2000;
Other_name :	Protein-tyrosine kinase 2-beta, Calcium-dependent tyrosine kinase, CADTK, Calcium- regulated non-receptor proline-rich tyrosine kinase, Cell adhesion kinase beta, CAK-beta, CAKB, Focal adhesion kinase 2, FADK 2, Proline-rich tyrosine kinase 2, Related adhesion focal tyrosine kinase, RAFTK, Ptk2b, Fak2, Pyk2, Raftk
Isotype :	Rabbit Ig
Background :	Non-receptor protein-tyrosine kinase that regulates reorganization of the actin cytoskeleton, cell polarization, cell migration, adhesion, spreading and bone remodeling. Plays a role in the regulation of the humoral immune response, and is required for normal levels of marginal B-cells in the spleen and normal migration of splenic B-cells. Required for normal macrophage polarization and migration towards sites of inflammation. Regulates cytoskeleton rearrangement and cell spreading in T- cells, and contributes to the regulation of T-cell responses. Promotes osteoclastic bone resorption; this requires both PTK2B/PYK2 and SRC. May inhibit differentiation and activity of osteoprogenitor cells. Functions in signaling downstream of integrin and collagen receptors, immune receptors, G-protein coupled receptors (GPCR), cytokine, chemokine and growth factor receptors, and mediates responses to cellular stress. Forms multisubunit signaling complexes with SRC and SRC family members upon activation; this leads to the phosphorylation of additional tyrosine residues, creating binding sites for scaffold proteins, effectors and substrates. Regulates numerous signaling cascade. Promotes activation of hNOS3. Regulates production of the cellular messenger cGMP. Promotes activation of NOS3. Regulates production of the cellular messenger cGMP. Promotes activation of NOS4. Regulates P53/TP53 activity, P53/TP53 ubiquitination and proteasomal degradation. Acts as a scaffold, binding to both PDPK1 and SRC, thereby allowing SRC to phosphorylate PDPK1 at 'Tyr-9, 'Tyr-373', and 'Tyr-376' (By similarity). Promotes phosphorylation of NMDA receptor ion channel activity and intracellular Ca(2+) levels. May also regulate potassium ion transport by phosphorylation of potassium channel subunits. Phosphorylates SRC; this increases SRC kinase activity. Phosphorylates ASAP1, NPHP1, KCNA2 and SHC1. Promotes phosphorylation of ASAP2, RHOU and PXN; this requires both SRC and PTK2/PYK2 (By similarity).



reference :

Avraham S.,et al.J. Biol. Chem. 270:27742-27751(1995). Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009). Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Lubec G.,et al.Submitted (JAN-2009) to UniProtKB. Salgia R.,et al