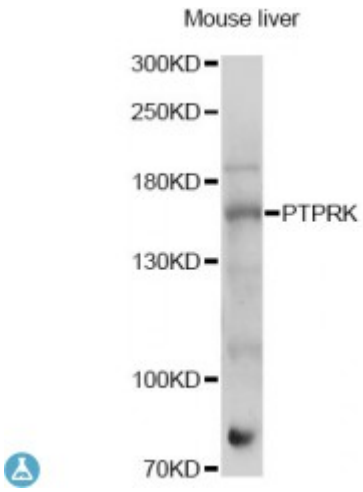
Anti-PTPRK Antibody



Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions. Expression of this gene was found to be stimulated by TGF-beta 1, which may be important for the inhibition of keratinocyte proliferation.

Model	STJ116973
Host	Rabbit
Reactivity	Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 600-750 of human PTPRK (NP_001129120.1).
Gene ID	5796
Gene Symbol	PTPRK
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	High levels in lung, brain and colon
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	Receptor-type tyrosine-protein phosphatase kappa Protein-tyrosine phosphatase kappa R-PTP-kappa
Molecular Weight	162.102 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:9674OMIM:602545Reactome:R-HSA-182971
Alternative Names	Receptor-type tyrosine-protein phosphatase kappa Protein-tyrosine phosphatase kappa R-PTP-kappa
Function	Regulation of processes involving cell contact and adhesion such as growth control, tumor invasion, and metastasis, Negative regulator of EGFR signaling pathway, Forms complexes with beta-catenin and gamma-catenin/plakoglobin, Beta-catenin may be a substrate for the catalytic activity of PTPRK/PTP-kappa,
Cellular Localization	Cell junction, adherens junction, Cell membrane
Post-translational Modifications	This protein undergoes proteolytic processing