Recombinant Chicken PTK2 Protein (376-683 aa), GST-tagged

Cat. No. PTK2-1272C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chicken PTK2 Protein (376-683 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Cancer. Protein Description: Partial.
Species	Chicken
Source	E.coli
ProteinLength	376-683 aa
Description	Non-receptor protein-tyrosine kinase that plays an essential role in regulating cell migration, adhesion, spreading, reorganization of the actin cytoskeleton, formation and disassbly of focal adhesions and cell protrusions, cell cycle progression, cell proliferation and apoptosis. Required for early bryonic development, bryonic angiogenesis, normal cardiomyocyte migration and proliferation, and normal heart development. Regulates axon growth and neuronal cell migration, axon branching and synapse formation; required for normal development of the nervous syst. Plays a role in osteogenesis and differentiation of osteoblasts. Functions in integrin signal transduction, but also in signaling downstream of numerous growth factor receptors, G-protein coupled receptors (GPCR), ephrin receptors, netrin receptors and LDL receptors. Forms multisubunit signaling complexes with SRC and SRC family mbers upon activation; this leads to the phosphorylation of additional tyrosine residues, creating binding sites for scaffold proteins, effectors and substrates. Regulates numerous signaling pathways. Promotes activation of phosphatidylinositol 3-kinase

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	and the AKT1 signaling cascade. Promotes activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling cascade. Promotes localized and transient activation of guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs), and thereby modulates the activity of Rho family GTPases. Signaling via CAS family mbers mediates activation of RAC1. Regulates P53/TP53 activity and stability. Phosphorylates SRC; this increases SRC kinase activity. Isoform 2 (FRNK) does not contain a kinase domain and inhibits PTK2/FAK1 phosphorylation and signaling.
Form	Tris-based buffer,50% glycerol
Molecular Mass	62.3 kDa
AA Sequence	LANNEKQGVRSHTVSVSETDDYAEIIDEEDTYTMPSTRDYEIQRERIELGRCIGEGQF GDVHQGIYMSPENPAMAVAIKTCKNCTSDSVREKFLQEALTMRQFDHPHIVKLIGVIT ENPVWIIMELCTLGELRSFLQVRKFSLDLASLILYAYQLSTALAYLESKRFVHRDIAAR NVLVSATDCVKLGDFGLSRYMEDSTYYKASKGKLPIKWMAPESINFRRFTSASDVW MFGVCMWEILMHGVKPFQGVKNNDVIGRIENGERLPMPPNCPPTLYSLMTKCWAY DPSRRPRFTELKAQLSTILEEE
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

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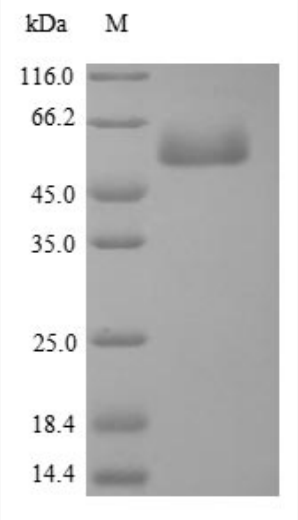
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	PTK2 protein tyrosine kinase 2 [Gallus gallus (chicken)]
Official Symbol	PTK2
Synonyms	FAK; FRNK; p125FAK;
Gene ID	396416
mRNA Refseq	NM_205435
Protein Refseq	NP_990766
UniProt ID	Q00944



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	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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