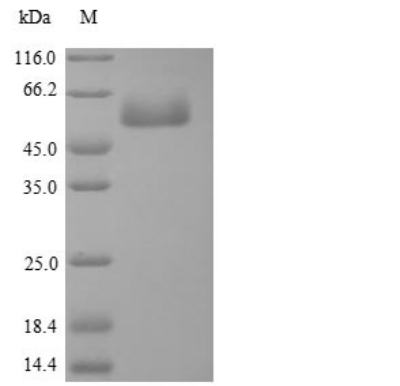
Recombinant Chicken Focal adhesion kinase 1 (PTK2), partial

Product Code	CSB-RP144494CH
Relevance	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 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.
Abbreviation	Recombinant Chicken PTK2 protein, partial
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q00944
Alias	Focal adhesion kinase-related nonkinase ;FRNK ;p41/p43FRNKProtein-tyrosine kinase 2p125FAKpp125FAK
Product Type	Recombinant Protein
Immunogen Species	Gallus gallus (Chicken)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	LANNEKQGVRSHTVSVSETDDYAEIIDEEDTYTMPSTRDYEIQRERIELGRCIG EGQFGDVHQGIYMSPENPAMAVAIKTCKNCTSDSVREKFLQEALTMRQFDHP HIVKLIGVITENPVWIIMELCTLGELRSFLQVRKFSLDLASLILYAYQLSTALAYLE SKRFVHRDIAARNVLVSATDCVKLGDFGLSRYMEDSTYYKASKGKLPIKWMAP ESINFRRFTSASDVWMFGVCMWEILMHGVKPFQGVKNNDVIGRIENGERLPM

	PPNCPPTLYSLMTKCWAYDPSRRPRFTELKAQLSTILEEE
Research Area	Cancer
Source	E.coli
Target Names	PTK2
Expression Region	376-683aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	62.3kDa
Protein Length	Partial
Image	 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.