

CCK4 (PTK7) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP7716a**Specification**

CCK4 (PTK7) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q13308](#)**CCK4 (PTK7) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 5754**Other Names**

Inactive tyrosine-protein kinase 7, Colon carcinoma kinase 4, CCK-4, Protein-tyrosine kinase 7, Pseudo tyrosine kinase receptor 7, Tyrosine-protein kinase-like 7, PTK7, CCK4

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7716a](/product/products/AP7716a) was selected from the N-term region of human PTK7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CCK4 (PTK7) Antibody (N-term) Blocking peptide - Protein Information**Name** PTK7**Synonyms** CCK4**Function**

Inactive tyrosine kinase involved in Wnt signaling pathway. Component of both the non-canonical (also known as the Wnt/planar cell polarity signaling) and the canonical Wnt signaling pathway. Functions in cell adhesion, cell migration, cell polarity, proliferation, actin cytoskeleton reorganization and apoptosis. Has a role in embryogenesis, epithelial tissue organization and angiogenesis.

Cellular Location

Membrane; Single-pass type I membrane protein. Cell junction. Note=Colocalizes with MMP14 at cell junctions. Also localizes at the leading edge of migrating cells

Tissue Location

Highly expressed in lung, liver, pancreas, kidney, placenta and melanocytes. Weakly expressed in thyroid gland, ovary, brain, heart and skeletal muscle. Also expressed in erythroleukemia cells. But not expressed in colon

CCK4 (PTK7) Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CCK4 (PTK7) Antibody (N-term) Blocking peptide - Images**CCK4 (PTK7) Antibody (N-term) Blocking peptide - Background**

PTK7 may function as a cell adhesion molecule. Although it belongs to the insulin receptor subfamily of Tyr protein kinases, it likely lacks the catalytic activity of a tyrosine kinase. It may be connected to the pathophysiology of colon carcinomas and/or may represent a tumor progression marker. This Type I membrane protein is highly expressed in lung, liver, pancreas, kidney, placenta and melanocytes, and it is weakly expressed in thyroid gland, ovary, brain, heart and skeletal muscle, and not in colon. Expression is also detected in erythroleukemia cells.

CCK4 (PTK7) Antibody (N-term) Blocking peptide - References

Zhang, H., et al., Nat. Biotechnol. 21(6):660-666 (2003). Park, S.K., et al., J. Biochem. 119(2):235-239 (1996). Mossie, K., et al., Oncogene 11(10):2179-2184 (1995).