

Product datasheet for **AP05710PU-N**

CCK4 (PTK7) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 0.5 - 1.0 µg/ml; detects a band of approximately 86kDa in colon tissue lysates. Immunohistochemistry on paraffin sections (requires antigen retrieval using heat treatment prior to staining).
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A 15 amino acid peptide located near the N-terminal region of human PTK7.
Specificity:	This antibody recognises Protein tyrosine kinase-like 7 (PTK7).
Formulation:	Phosphate buffered saline containing 0.02% Sodium Azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine kinase 7 (inactive)
Database Link:	Entrez Gene 5754 Human Q13308



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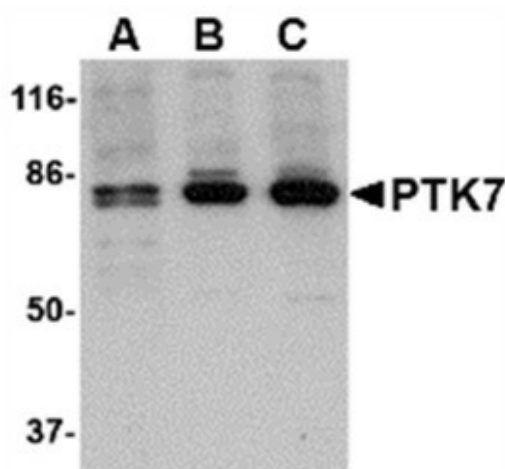
Background:

PTK7 is a member of the receptor tyrosine kinase family, otherwise known as Colon Carcinoma Kinase 4 (CCK4). PTK7 is highly expressed in the kidney, liver, lung, pancreas and melanocytes with weaker expression being detected in the thyroid gland, ovaries, brain, heart and skeletal muscle.

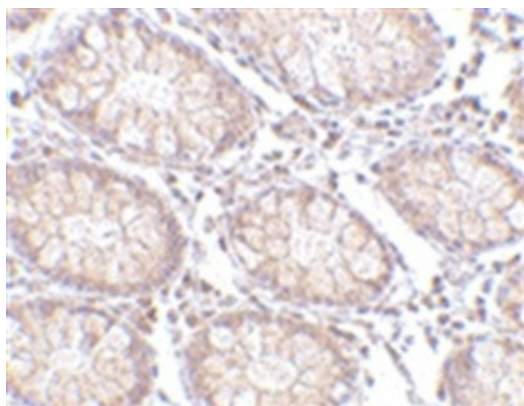
PTK7 may play a role in embryonic development. It is thought to function as a cell adhesion molecule and as a novel regulator of the planar cell polarity (PCP) pathway in vertebrates. Studies also suggest that PTK7 may be involved in the tumour progression. A loss of PTK7 expression has been observed in melanoma cell lines, whereas increased levels of PTK7 have been detected in high-throughput acute myeloid leukaemia samples. In addition, PTK7 is not expressed in normal colon but has been detected in colon carcinomas and as such is a potential marker for tumour progression.

Synonyms:

Tyrosine-protein kinase-like 7, Colon carcinoma kinase 4, CCK-4

Product images:


Western blot analysis of human (A) mouse (B) and Rat (C) colon lysates probed with Rabbit anti Human PTK7 at 1 ug/ml



Formalin fixed, paraffin embedded human colon stained with Rabbit anti Human PTK7 following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)