

PTK7 Antibody

PTK7 (CT): Protein tyrosine Kinase 7, colon carcinoma kinase-4, CCK-4

CATALOG No.:4297

BACKGROUND:

Protein-tyrosine kinases (PTKs) play important roles in regulating cell proliferation and differentiation during development. One member of the PTK family, PTK7, has been suggested to regulate the planar cell polarity (PCP) pathway in vertebrates and may play a role in neural convergent extension and neural tube closure (1,2). PTK7 has also been implicated in the development of cancer. Loss of PTK7 expression was seen in several melanoma cell lines and biopsies (3). Conversely, high-throughput analysis of acute myeloid leukemia samples showed an increased level of PTK7 expression compared to normal bone marrow and purified CD34+ cells (4). Multiple isoforms of PTK7 are known to exist.

SOURCE:

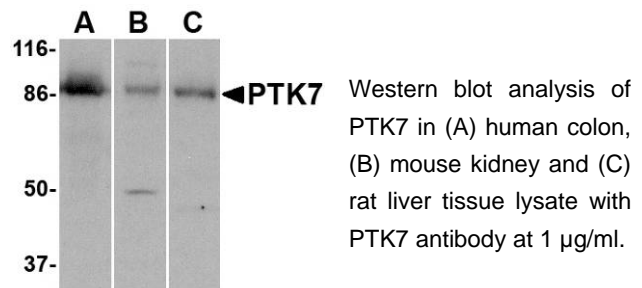
Rabbit polyclonal antibody was raised against an 18 amino acid peptide from near the carboxy terminus of human PTK7 (GenBank accession no. AAH71557).

APPLICATIONS:

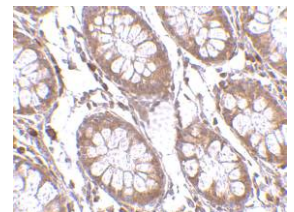
PTK7 antibody can be used for detection of PTK7 by Western blot at 0.5 – 1 µg/ml. (Optimal dilution should be determined by user.) Human colon tissue lysate can be used as positive control. PTK7 antibody is human, mouse and rat reactive. **For research use only.**

STORAGE:

PTK7 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Immunohistochemistry of PTK7 in human colon tissue with PTK7 antibody at 2.5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4297P**.

Human Colon Tissue Lysate, Catalog No. **1320**.

PTK7 Antibody (NT), Catalog No. **4299**.

REFERENCES:

1. Park SK, Lee HS and Lee ST. Characterization of the human full-length PTK7 cDNA encoding a receptor protein kinase-like molecule closely related to chick KLG. *J. Biochem.* 1996; 119:235-9.
 2. Lu X, Borchers AG, Jolicoeur C, et al. PTK7/CCK-4 is a novel regulator of planar cell polarity in vertebrates. *Nature* 2004; 430:93-8.
 3. Easty DJ, Mitchell PJ, Patel K, et al. Loss of expression of receptor tyrosine kinase family genes PTK7 and SEK in metastatic melanoma. *Int. J. Cancer* 1997; 106:1-5.
 4. Muller-Tidow C, Schwable J, Steffen B, et al. High-throughput analysis of genome-wide receptor tyrosine kinase expression in human cancers identifies potential novel drug targets. *Clin. Cancer Res.* 2004; 10:1241-9.
- (08-02D)

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