

Datasheet: AHP1440

Description:	RABBIT ANTI HUMAN PTK7 (N-TERMINAL)
Specificity:	PTK7 (N-TERMINAL)
Other names:	CCK-4
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Antisera to human PTK7 (NT) were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen A 15 amino acid peptide located near the N-terminal region of human PTK7.

External Database Links

UniProt:
[Q13308](#) [Related reagents](#)

Entrez Gene:
[5754](#) PTK7 [Related reagents](#)

Synonyms CCK4

Specificity

Rabbit anti Human PTK7 antibody recognizes the N-terminal region of human Protein tyrosine kinase-like 7 (PTK7), 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.

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.

Western Blotting AHP1440 detects a band of approximately 86kDa in colon tissue lysates.

Further Reading

1. Lu, X. *et al.* (2004) PTK7/CCK-4 is a novel regulator of planar cell polarity in vertebrates. [Nature. 430 \(6995\): 93-8.](#)
2. Easty, D.J. *et al.* (1997) Loss of expression of receptor tyrosine kinase family genes PTK7 and SEK in metastatic melanoma. [Int J Cancer. 71 \(6\): 1061-5.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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