

Rabbit anti-Human CCK4 (PTK7) Polyclonal Antibody | anti-PTK7 antibody

CCK4 (PTK7) Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285102	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

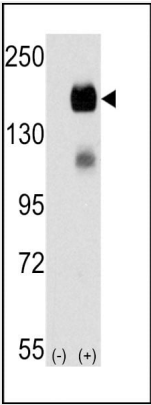
PRODUCT SYNONYMS

CCK4 (PTK7); Polyclonal Antibody; CCK4 (PTK7) Antibody (N-term); 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; anti-PTK7 antibody

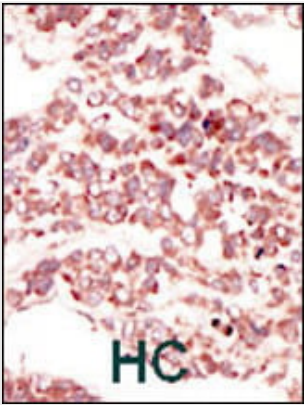
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CCK4 (PTK7) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-52 amino acids from the N-terminal region of human CCK4 (PTK7).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	21-52
Sequence Length	1,078
Applicable Applications for anti-PTK7 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

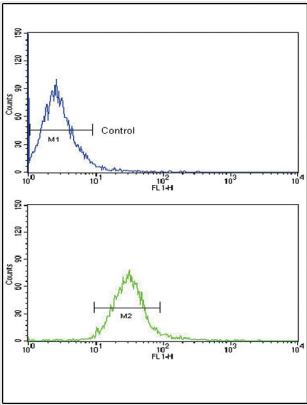
IMAGES



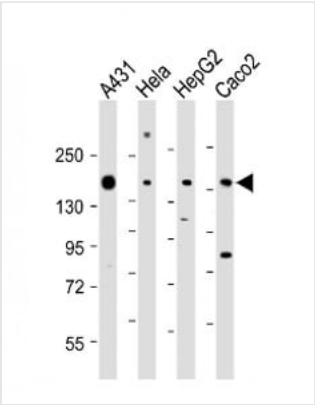
WB (Western Blot)
Western blot analysis of CCK4 (arrow) using rabbit polyclonal CCK4 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PTK7 gene (Lane 2) (Origene Technologies).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NCI-H460 cells using CCK4 (PTK7) Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
All lanes : Anti-CCK4 (PTK7) Antibody (N-term) at 1:1000-1:2000 dilution
Lane 1: A431 whole cell lysate
Lane 2: HeLa whole cell lysate
Lane 3: HepG2 whole cell lysate
Lane 4: Caco2 whole cell lysate
Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 118 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-PTK7 antibody	CCK4 may function as a cell adhesion molecule. Although it belongs to the insuline receptor subfamily of the 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, but weakly expressed in thyroid gland, ovary, brain, heart and skeletal muscle, and not in colon. It is also expressed in erythroleukemia cells.
Product Categories/Family for anti-PTK7 antibody	Metabolism; Signal Transduction
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	393715082
NCBI GeneID	5754
NCBI Accession #	NP_001257327.1; NP_002812.2; NP_690619.1; NP_690620.1; NP_690621.1

NCBI GenBank Nucleotide #	NM_001270398.1
UniProt Accession #	Q13308 ; Q13417 ; Q5T650 ; Q6IQ54 ; Q8NFA5 ; Q8NFA6 ; Q8NFA7 ; Q8NFA8 ; A8K974 ; B7Z477 ; E9PFZ5
NCBI Official Full Name	inactive tyrosine-protein kinase 7 isoform e
NCBI Official Synonym Full Names	protein tyrosine kinase 7 (inactive)
NCBI Official Symbol	PTK7
NCBI Official Synonym Symbols	CCK4; CCK-4
NCBI Protein Information	inactive tyrosine-protein kinase 7
UniProt Protein Name	Inactive tyrosine-protein kinase 7
UniProt Gene Name	PTK7
UniProt Synonym Gene Names	CCK4; CCK-4
UniProt Entry Name	PTK7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cck4-ptk7-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285102>