

Product datasheet

Anti-PFTK1 antibody - N-terminal ab175489

[3 Images](#)

Overview

Product name	Anti-PFTK1 antibody - N-terminal
Description	Rabbit polyclonal to PFTK1 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human PFTK1 aa 74-104 (N terminal) conjugated to Keyhole Limpet Haemocyanin (KLH). The exact sequence is proprietary. Database link: O94921
Positive control	Mouse cerebellum tissue lysate; Human brain tissue; HepG2 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: 99% PBS
Purity	Ammonium Sulphate Precipitation
Purification notes	ab175489 is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab175489** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes

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Flow Cyt		1/10 - 1/50. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 53 kDa.

Target

Function

Serine/threonine-protein kinase involved in the control of the eukaryotic cell cycle, whose activity is controlled by an associated cyclin. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by mediating the phosphorylation of LRP6 at 'Ser-1490', leading to the activation of the Wnt signaling pathway. Acts as a regulator of cell cycle progression and cell proliferation via its interaction with CCDN3. Phosphorylates RB1 in vitro, however the relevance of such result remains to be confirmed in vivo. May also play a role in meiosis, neuron differentiation and may indirectly act as a negative regulator of insulin-responsive glucose transport.

Tissue specificity

Highly expressed in brain, pancreas, kidney, heart, testis and ovary. Also detected at lower levels in other tissues except in spleen and thymus where expression is barely detected.

Sequence similarities

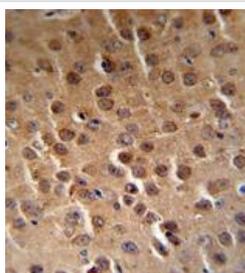
Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.

Contains 1 protein kinase domain.

Cellular localization

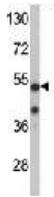
Cell membrane. Cytoplasm. Nucleus. Recruited to the cell membrane by CCNY.

Images



Immunohistochemical analysis of formalin fixed, paraffin embedded Human brain tissue labeling PFTK1 with ab175489 at 1/50 dilution, followed by peroxidase conjugation of the secondary antibody and DAB staining.

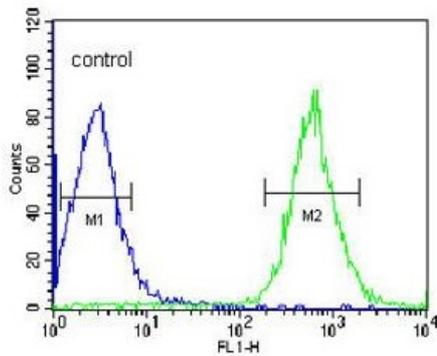
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PFTK1 antibody - N-terminal (ab175489)



Western blot - Anti-PFTK1 antibody - N-terminal (ab175489)

Anti-PFTK1 antibody - N-terminal (ab175489) at 1/1000 dilution +
 Mouse cerebellum tissue lysate at 35 µg

Predicted band size: 53 kDa



Flow Cytometry - Anti-PFTK1 antibody - N-terminal (ab175489)

Flow cytometric analysis of HepG2 cells labeling PFTK1 with ab175489 antibody at 1/10 dilution (right histogram), compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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