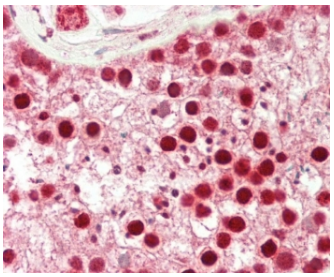
CDK14 Antibody / Cyclin-dependent kinase 14 / PFTAIRE-1 (F54430)

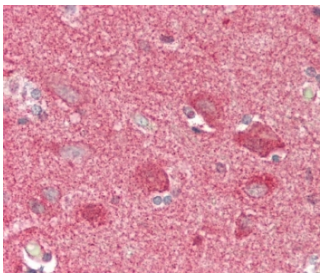
Catalog No.	Formulation	Size
F54430-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54430-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

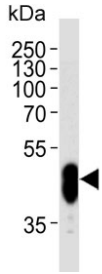
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	O94921
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Flow Cytometry : 1:25 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:25
Limitations	This CDK14 antibody is available for research use only.



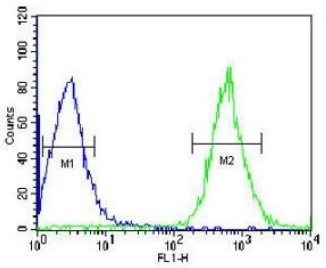
IHC testing of FFPE human testis tissue with CDK14 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human brain tissue with CDK14 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of human brain lysate with CDK14 antibody. Predicted molecular weight ~53 kDa.



Flow cytometry testing of human HepG2 cells with CDK14 antibody; Blue=isotype control, Green= CDK14 antibody.

Description

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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the CDK14 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 67-96 from the human protein was used as the immunogen for the CDK14 antibody.

Storage

Aliquot the CDK14 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.