

For Research Use Only

CDKAL1 Polyclonal antibody

Catalog Number: 22988-1-AP **2 Publications**



Basic Information

Catalog Number: 22988-1-AP	GenBank Accession Number: BC121020	Purification Method: Antigen Affinity purified
Size: 150ul, Concentration: 700 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 54901	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q5VV42	
Isotype: IgG	Full Name: CDK5 regulatory subunit associated protein 1-like 1	
Immunogen Catalog Number: AG19060	Calculated MW: 579 aa, 65 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse lung tissue, HepG2 cells, HT-1080 cells, Jurkat cells

IHC: human oesophagus tissue,

IF/ICC: HepG2 cells,

Background Information

Cell cycle progression is controlled, in part, by a family of cyclin dependent kinases (Cdks) that work to phosphorylate key substrates involved in each phase of cell cycle progression. Cdks are the catalytic subunits of serine/threonine protein kinases, a large family of proteins that act as regulators of the eukaryotic cell cycle. CDKAL1 (Cdk5 regulatory subunit associated protein 1-like 1) is a 579 amino acid single-pass membrane protein that contains one TRAM domain and is similar to Cdk5 regulatory subunit associated proteins (CDK5RAPs). Expressed in pancreas, brain and skeletal muscle, CDKAL1 uses iron as a cofactor and is involved in glucose-stimulated INS secretion. Defects in the gene encoding CDKAL1 impair INS secretion and are associated with the development of type 2 diabetes. Multiple isoforms of CDKAL1 exist due to alternative splicing events. This antibody recognizes the 65kd isoform of CDKAL1.

Notable Publications

Author	Pubmed ID	Journal	Application
Nunziata Maio	38950322	J Clin Invest	WB
Rongsheng Huang	36786012	Adv Sci (Weinh)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

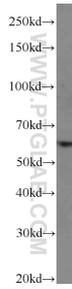
For technical support and original validation data for this product please contact:

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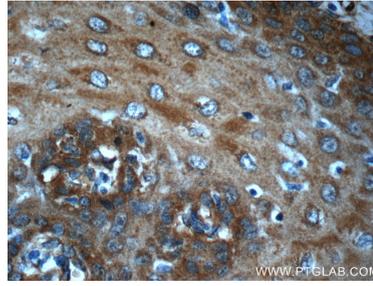
E: proteintech@ptglab.com
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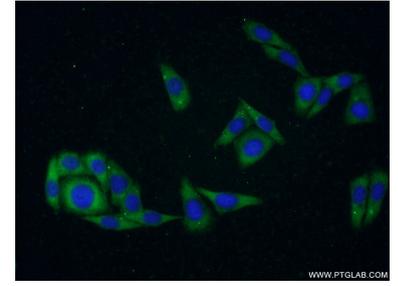
Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 22988-1-AP (CDKAL1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human oesophagus slide using 22988-1-AP (CDKAL1 Antibody) at dilution of 1:50.



Immunofluorescent analysis of HepG2 cells using 22988-1-AP (CDKAL1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).