

# Anti-PCTAIRE1 Rabbit Monoclonal Antibody

Catalog # ABO16434

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                |
| <b>Primary Accession</b> | <a href="#">Q00536</a>                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                            |
| <b>Isotype</b>           | IgG                                                                                                               |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                 |
| <b>Clonality</b>         | Monoclonal                                                                                                        |
| <b>Format</b>            | Liquid                                                                                                            |
| <b>Description</b>       | Anti-PCTAIRE1 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>             | 5127                                                                                                                                                                      |
| <b>Other Names</b>         | Cyclin-dependent kinase 16, 2.7.11.22, Cell division protein kinase 16, PCTAIRE-motif protein kinase 1, Serine/threonine-protein kinase PCTAIRE-1, CDK16, PCTAIRE1, PCTK1 |
| <b>Calculated MW</b>       | 55716                                                                                                                                                                     |
| <b>Application Details</b> | WB 1:500-1:2000                                                                                                                                                           |
| <b>Source</b>              | Eukaryota                                                                                                                                                                 |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                       |
| <b>Clone Names</b>         | Clone: 29C70                                                                                                                                                              |
| <b>Immunogen</b>           | A synthesized peptide derived from human PCTAIRE1                                                                                                                         |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                                                   |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                |

## Protein Information

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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>     | CDK16                                                                                                                                                    |
| <b>Synonyms</b> | PCTAIRE1, PCTK1                                                                                                                                          |
| <b>Function</b> | Protein kinase that plays a role in vesicle-mediated transport processes and exocytosis. Regulates GH1 release by brain neurons. Phosphorylates NSF, and |

thereby regulates NSF oligomerization. Required for normal spermatogenesis. Regulates neuron differentiation and dendrite development (By similarity). Plays a role in the regulation of insulin secretion in response to changes in blood glucose levels. Can phosphorylate CCNY at 'Ser-336' (in vitro).

#### Cellular Location

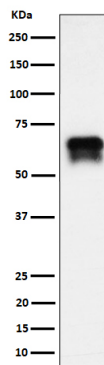
Cytoplasm. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:Q63686} Cell membrane; Peripheral membrane protein; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:Q63686}. Note=Colocalizes with insulin in pancreas islets. Recruited to the cell membrane by CCNY

#### Tissue Location

Detected in pancreas islets (at protein level). Detected in brain and pancreas.

## Images

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Western blot analysis of PCTAIRE1 expression in BxPC-3 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.