



# Human CDKN1B blocking peptide (CDBP1689)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Product Overview</b>    | Blocking/Immunizing peptide for anti-KIP1/CDKN1B (internal) antibody  |
| <b>Antigen Description</b> | This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014] |
| <b>Species</b>             | Human   |
| <b>Conjugate</b>           | Unconjugated  |
| <b>Applications</b>        | Apuri, BL, ELISA  |
| <b>Format</b>              | Lyophilized powder  |
| <b>Size</b>                | 100 µg  |
| <b>Preservative</b>        | None  |
| <b>Storage</b>             | Shipped at ambient temperature, store at -20°C.   |

## GENE INFORMATION

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|------------------------|--|
| <b>Gene Name</b>       | <a href="#">CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1) [ Homo sapiens (human) ]</a> |
| <b>Official Symbol</b> | CDKN1B   |
| <b>Synonyms</b>        | CDKN1B; cyclin-dependent kinase inhibitor 1B (p27, Kip1); KIP1; MEN4; CDKN4; MEN1B;              |

P27KIP1; cyclin-dependent kinase inhibitor 1B;

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| <b>Entrez Gene ID</b>      | <a href="#">1027</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_004064.4</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_004055.1</a>   |
| <b>UniProt ID</b>          | P46527  |
| <b>Chromosome Location</b> | 12p13.1-p12   |
| <b>Pathway</b>             | AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; AhR pathway, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cellular |
| <b>Function</b>            | Hsp70 protein binding; chaperone binding; cyclin-dependent protein serine/threonine kinase inhibitor activity; contributes_to cysteine-type endopeptidase activator activity involved in apoptotic process; protein binding; protein complex binding; protein p   |

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