

p27 protein

CatalogNo: YD0077

| Key Features

Reactivity

- Human

Applications

- WB, SDS-PAGE

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -20°C/6 month, -80°C for long storage

Formulation Liquid in PBS

| Basic Information

Source E.coli

Purification E.coli

Purity SDS-PAGE >90%

| Immunogen Information

Sequence Amino acid: 123-198, with his-MBP tag.

| Target Information

Gene name CDKN1B

Protein Name p27 protein

Organism	Gene ID	UniProt ID
Human	1027 ;	P46527 ;
Mouse		P46414 ;

Cellular Localization

Nucleus. Cytoplasm. Endosome . Nuclear and cytoplasmic in quiescent cells. AKT- or RSK-mediated phosphorylation on Thr-198, binds 14-3-3, translocates to the cytoplasm and promotes cell cycle progression. Mitogen-activated UHMK1 phosphorylation on Ser-10 also results in translocation to the cytoplasm and cell cycle progression. Phosphorylation on Ser-10 facilitates nuclear export. Translocates to the nucleus on phosphorylation of Tyr-88 and Tyr-89. Colocalizes at the endosome with SNX6; this leads to lysosomal degradation (By similarity). .

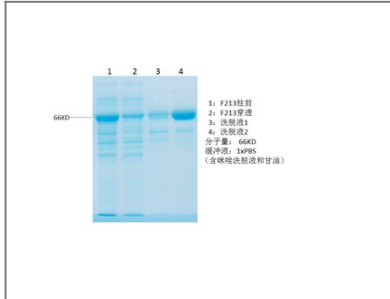
Tissue specificity

Expressed in kidney (at protein level) (PubMed:15509543). Expressed in all tissues tested (PubMed:8033212). Highest levels in skeletal muscle, lowest in liver and kidney (PubMed:8033212).

Function

regulation of cyclin-dependent protein kinase activity, G1/S transition of mitotic cell cycle, mitotic cell cycle, regulation of cell growth, regulation of transcription, DNA-dependent, negative regulation of protein kinase activity, ion transport, cation transport, potassium ion transport, induction of apoptosis, cell cycle, cell cycle arrest, sensory organ development, sensory perception, sensory perception of sound, cell death, positive regulation of cell proliferation, negative regulation of cell proliferation, regulation of cell size, negative regulation of biosynthetic process, negative regulation of macromolecule biosynthetic process, negative regulation of phosphorus metabolic process, negative regulation of macromolecule metabolic process, negative regulation of gene expression, positive regulation of organelle organization, regulation of cell death, positive regulation of cell death, programmed cell death, induction of programmed cell death, monovalent inorganic cation transport, death, negative regulation of transcription, regulation of phosphate metabolic process, cell cycle process, cell cycle phase, metal ion transport, negative regulation of cell growth, regulation of microtubule polymerization or depolymerization, positive regulation of microtubule polymerization or depolymerization, regulation of microtubule polymerization, positive regulation of microtubule polymerization, negative regulation of cellular biosynthetic process, positive regulation of protein complex assembly, regulation of protein polymerization, positive regulation of protein polymerization, regulation of cellular component size, negative regulation of gene-specific transcription, regulation of gene-specific transcription, regulation of microtubule-based process, regulation of organelle organization, negative regulation of kinase activity, regulation of growth, regulation of cell proliferation, regulation of phosphorylation, negative regulation of phosphorylation, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, negative regulation of catalytic activity, regulation of protein complex assembly, regulation of kinase activity, ear development, regulation of cellular component biogenesis, negative regulation of molecular function, regulation of transcription, negative regulation of cyclin-dependent protein kinase activity, negative regulation of cell cycle, negative regulation of cell size, regulation of protein kinase activity, negative regulation of transcription, DNA-dependent, negative regulation of growth, negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, negative regulation of phosphate metabolic process, autophagic cell death, inner ear development, regulation of epithelial cell proliferation, negative regulation of epithelial cell proliferation, neurological system process, cognition, sensory perception of mechanical stimulus, positive regulation of cellular component organization, negative regulation of nitrogen compound metabolic process, regulation of phosphorus metabolic process, regulation of RNA metabolic process, negative regulation of RNA metabolic process, regulation of cell motion, negative regulation of cell motion, interphase, interphase of mitotic cell cycle, regulation of transferase activity, negative regulation of transferase activity, regulation of cytoskeleton organization, positive regulation of cytoskeleton organization, regulation of cell cycle, regulation of microtubule cytoskeleton organization,

Validation Data



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