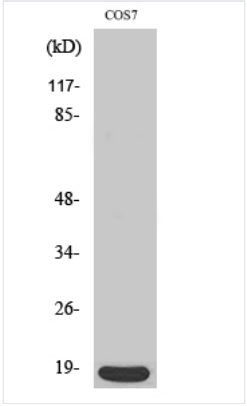
# p18 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | p18, Polyclonal Antibody |
| **Full Product Name** | p18 Polyclonal Antibody |
| **Product Gene Name** | anti-p18 antibody |
| **Product Synonym Gene Name** | CDKN2C |
| **Product Synonym Names** | CDKN2C; CDKN6; Cyclin-dependent kinase 4 inhibitor C; Cyclin-dependent kinase 6 inhibitor; p18-INK4c; p18-INK6 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Monkey |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Molecular Weight** | 18,127 Da |
| **Chromosome Location** | Chromosome: 1; NC_000001.10 (51434367..51440309). Location: 1p32 |
| **OMIM** | 603369 |
| **3D Structure** | ModBase 3D Structure for P42773 |
| **Applications Tested/Suitable for anti-p18 antibody** | Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P) |
| **Related Product Information for anti-p18 antibody** | Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB. |
| **Other Notes** | Small volumes of anti-p18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for p18 purchase** | MBS9244723 is an antibody targeting p18. Also known as p18 Polyclonal Antibody. Reactive in Human, Mouse, Monkey. Host: Rabbit. |




**Wester Blot (WB) of anti-p18 antibody**
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p18. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4502751 |
| **NCBI GeneID** | 1031 |
| **NCBI Accession #** | NP_001253.1 |
| **UniProt Primary Accession #** | P42773 |
| **UniProt Secondary Accession #** | Q8TB83 |
| **UniProt Related Accession #** | P42773 |
| **GenBank Nucleotide #** | NM_001262.2 |
| **NCBI Official Full Name** | cyclin-dependent kinase 4 inhibitor C |
| **NCBI Official Synonym Full Names** | cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4) |
| **NCBI Official Symbol** | CDKN2C |
| **NCBI Official Synonym Symbols** | p18; INK4C; p18-INK4C |
| **UniProt Protein Name** | Cyclin-dependent kinase 4 inhibitor C |
| **UniProt Synonym Protein Names** | Cyclin-dependent kinase 6 inhibitor; p18-INK4c; p18-INK6 |
| **Protein Family** | P18 protein |
| **UniProt Gene Name** | CDKN2C |
| **UniProt Synonym Gene Names** | CDKN6 |
| **UniProt Entry Name** | CDN2C_HUMAN |
| **NCBI Protein Information** | cyclin-dependent kinase 4 inhibitor C; p18-INK6; CDK6 inhibitor p18; cyclin-dependent inhibitor; cyclin-dependent kinase 6 inhibitor p18 |
| **NCBI Summary for p18** | The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. Ectopic expression of this gene was shown to suppress the growth of human cells in a manner that appears to correlate with the presence of a wild-type RB1 function. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode an identical protein, have been reported. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for p18** | CDKN2C: Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB. Heterodimer of p18 with CDK6. Highest levels found in skeletal muscle. Also found in pancreas and heart. Belongs to the CDKN2 cyclin-dependent kinase inhibitor family.<br><br>Protein type: Cell cycle regulation; Protein kinase, regulatory subunit; Inhibitor<br><br>Chromosomal Location of Human Ortholog: 1p32<br><br>Cellular Component: cytoplasm; nucleus; cytosol<br><br>Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase binding<br><br>Biological Process: negative regulation of cell proliferation; oligodendrocyte differentiation; negative regulation of phosphorylation; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; negative regulation of cell growth; cell cycle arrest; G1/S transition of mitotic cell cycle |
| **Research Articles on p18** | **1.** Analysis of B1a lymphocyte phenotypes of p18-deficient C57BL/6 mice finds that p18 is a key regulator of the size of the B1a cell pool. |

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