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# Product datasheet for AM20604PU-N

## CDK4 Mouse Monoclonal Antibody [Clone ID: IML-4]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | IML-4 |
| **Applications:** | IF, WB |
| **Recommended Dilution:** | Western Blot: 0.5 - 1 µg/ml.<br>Immunocytochemistry. |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Recombinant human Cdk4 protein. |
| **Specificity:** | This antibody reacts to CDK4. |
| **Formulation:** | 1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative.<br>State: Purified<br>State: Lyphilized purified Ig fraction |
| **Reconstitution Method:** | Restore with 1.2% sodium acetate or neutral PBS |
| **Concentration:** | 0,1 mg/ml (after reconstitution with PBS) |
| **Purification:** | Affinity chromatography |
| **Conjugation:** | Unconjugated |
| **Storage:** | Prior to reconstitution store at -20°C.<br>Following reconstitution store undiluted at 2-8°C for one month<br>or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | cyclin-dependent kinase 4 |
| **Database Link:** | Entrez Gene 12567 MouseEntrez Gene 94201 RatEntrez Gene 1019 Human<br>P11802 |

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**Background:** Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. Human cell division is regulated primarily at the G1-to-S or the G2-to-M boundaries within the cell cycle. The complexes formed by CDK4 and the D-type cyclins are involved in the control of cell proliferation during the G1 phase. CDK4 is inhibited by p16, also known as cyclin-dependent kinase inhibitor-2. CDK4 is mapped to 12q14. CDK4 expression and activity are required for cytokine responsiveness in T cells.

**Synonyms:** PSK-J3

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer, T cell receptor signaling pathway, Tight junction