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Anti-CDK4 Antibody (Monoclonal, DCS-31)

Catalog # ABO10415

Specification

Anti-CDK4 Antibody (Monoclonal, DCS-31) - Product Information

Application	**WB, ICC**
Primary Accession	P35462
Host	**Mouse**
Isotype	**Mouse IgG2a**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Mouse IgG monoclonal antibody for CDK4, cyclin-dependent kinase 4 (CDK4) detection. Tested with WB, ICC in Human;mouse;rat. No cross reactivity with other proteins.

Reconstitution
Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-CDK4 Antibody (Monoclonal, DCS-31) - Additional Information

Gene ID 1814

Other Names
D(3) dopamine receptor, Dopamine D3 receptor, DRD3

Calculated MW
44225 MW KDa

Application Details
Immunocytochemistry , 1 µg/ml, Human, mouse, rat, -
Western blot, 0.5-1 µg/ml, Human, mouse, rat

Subcellular Localization
Cell membrane ; Multi-pass membrane protein . Both membrane-bound and scattered in the cytoplasm during basal conditions. Receptor stimulation results in the rapid internalization and sequestration of the receptors at the perinuclear area (5 and 15 minutes), followed by the dispersal of the receptors to the membrane (30 minutes). DRD3 and GRK4 co- localize in lipid rafts of renal proximal tubule cells.

Tissue Specificity
Brain.

Protein Name
Cyclin-dependent kinase 4

Contents
Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen
Recombinant human Cdk4 protein.

Purification
Ascites

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.

Anti-CDK4 Antibody (Monoclonal, DCS-31) - Protein Information

Name DRD3 (HGNC:3024)

Function
Dopamine receptor whose activity is mediated by G proteins which inhibit adenylyl cyclase. Promotes cell proliferation.

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=Both membrane-bound and scattered in the cytoplasm during basal conditions Receptor stimulation results in the rapid internalization and sequestration of the receptors at the perinuclear area (5 and 15 minutes), followed by the dispersal of the receptors to the membrane (30 minutes). DRD3 and GRK4 co-localize in lipid rafts of renal proximal tubule cells

Tissue Location
Brain.

Anti-CDK4 Antibody (Monoclonal, DCS-31) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CDK4 Antibody (Monoclonal, DCS-31) - Images

Anti-CDK4 Antibody (Monoclonal, DCS-31) - 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.