

Product datasheet

Anti-Cyclin D1 antibody ab61758

5 References 2 图像

概述

产品名称	Anti-Cyclin D1抗体
描述	兔多克隆抗体to Cyclin D1
宿主	Rabbit
经测试应用	适用于: ELISA, IHC-P, WB
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide corresponding to Human Cyclin D1.
阳性对照	Jurkat cell extract, treated with EGF (200ng/ml, 30mins), human brain tissue.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab61758** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ELISA		1/40000.
IHC-P		1/50 - 1/100.
WB		1/500 - 1/1000. Detects a band of approximately 31, 21 kDa (predicted molecular weight: 31 kDa).

靶标

功能

Essential for the control of the cell cycle at the G1/S (start) transition.

疾病相关

Note=A chromosomal aberration involving CCND1 may be a cause of B-lymphocytic malignancy, particularly mantle-cell lymphoma (MCL). Translocation t(11;14)(q13;q32) with immunoglobulin gene regions. Activation of CCND1 may be oncogenic by directly altering progression through the cell cycle.

Note=A chromosomal aberration involving CCND1 may be a cause of parathyroid adenomas. Translocation t(11;11)(q13;p15) with the parathyroid hormone (PTH) enhancer.

Defects in CCND1 are a cause of multiple myeloma (MM) [MIM:254500]. MM is a malignant tumor of plasma cells usually arising in the bone marrow and characterized by diffuse involvement of the skeletal system, hyperglobulinemia, Bence-Jones proteinuria and anemia. Complications of multiple myeloma are bone pain, hypercalcemia, renal failure and spinal cord compression. The aberrant antibodies that are produced lead to impaired humoral immunity and patients have a high prevalence of infection. Amyloidosis may develop in some patients. Multiple myeloma is part of a spectrum of diseases ranging from monoclonal gammopathy of unknown significance (MGUS) to plasma cell leukemia. Note=A chromosomal aberration involving CCND1 is found in multiple myeloma. Translocation t(11;14)(q13;q32) with the IgH locus.

序列相似性

Belongs to the cyclin family. Cyclin D subfamily.

翻译后修饰

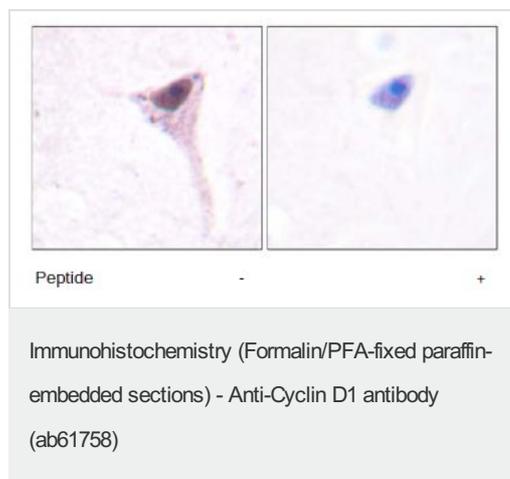
Phosphorylation at Thr-286 by MAP kinases is required for ubiquitination and degradation following DNA damage. It probably plays an essential role for recognition by the FBXO31 component of SCF (SKP1-cullin-F-box) protein ligase complex.

Ubiquitinated, primarily as 'Lys-48'-linked polyubiquitination. Ubiquitinated by a SCF (SKP1-CUL1-F-box protein) ubiquitin-protein ligase complex containing FBXO4 and CRYAB (By similarity). Following DNA damage it is ubiquitinated by some SCF (SKP1-cullin-F-box) protein ligase complex containing FBXO31. Ubiquitination leads to its degradation and G1 arrest. Deubiquitinated by USP2; leading to stabilize it.

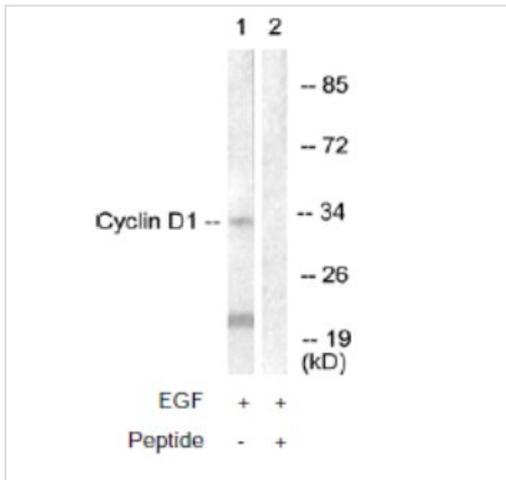
细胞定位

Nucleus.

图片



Human brain tissue stained with ab61758 at 1/50 dilution, with and without the immunising peptide.



Western blot - Anti-Cyclin D1 antibody (ab61758)

All lanes : Anti-Cyclin D1 antibody (ab61758)
at 1/500 dilution

Lane 1 : extract from Jurkat cells, treated with EGF (200ng/ml, 30mins).

Lane 2 : extract from Jurkat cells, treated with EGF (200ng/ml, 30mins), and the immunising peptide.

Predicted band size: 31 kDa

Observed band size: 31 kDa

Additional bands at: 21 kDa. We are unsure as to the identity of these extra bands.

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