

Product datasheet

Anti-Cyclin T1 antibody ab225872

3 Images

Overview

<b>Product name</b>	Anti-Cyclin T1 antibody
<b>Description</b>	Rabbit polyclonal to Cyclin T1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee 
<b>Immunogen</b>	Synthetic peptide within Human Cyclin T1 aa 250-300. The exact sequence is proprietary. (NP_001231.2). Database link: <a href="#">O60563</a>
<b>Positive control</b>	WB: HeLa and HEK-293T whole cell lysates. IP: HeLa whole cell lysate. IHC-P: Human breast carcinoma tissue.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab225872 was affinity purified using an epitope specific to Cyclin T1 immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab225872** in the following tested applications.

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

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 81 kDa.
IP		Use at 2-10 µg/mg of lysate.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin-T1) complex, also called positive transcription elongation factor B (P-TEFb), which is proposed to facilitate the transition from abortive to productive elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNA Pol II). In case of HIV or SIV infections, binds to the transactivation domain of the viral nuclear transcriptional activator, Tat, thereby increasing Tat's affinity for the transactivating response RNA element (TAR RNA). Serves as an essential cofactor for Tat, by promoting RNA Pol II activation, allowing transcription of viral genes.

### Tissue specificity

Ubiquitously expressed.

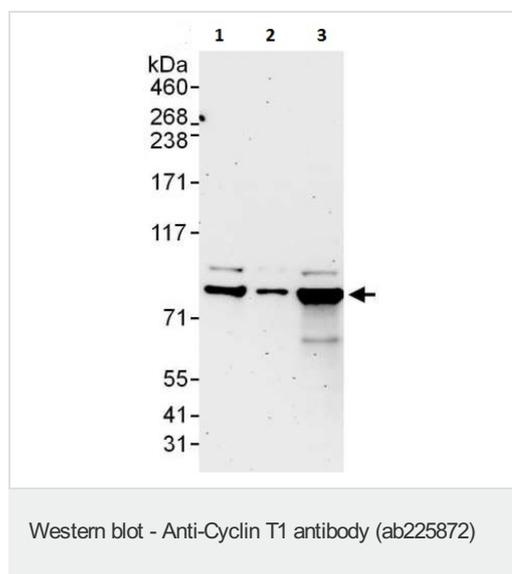
### Sequence similarities

Belongs to the cyclin family. Cyclin C subfamily.

### Cellular localization

Nucleus.

## Images



**All lanes :** Anti-Cyclin T1 antibody (ab225872) at 0.04 µg/ml

**Lane 1 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

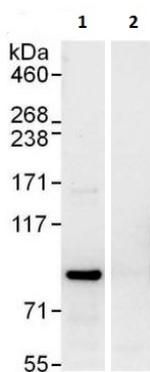
**Lane 2 :** HeLa whole cell lysate at 15 µg

**Lane 3 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 81 kDa

**Exposure time:** 3 minutes



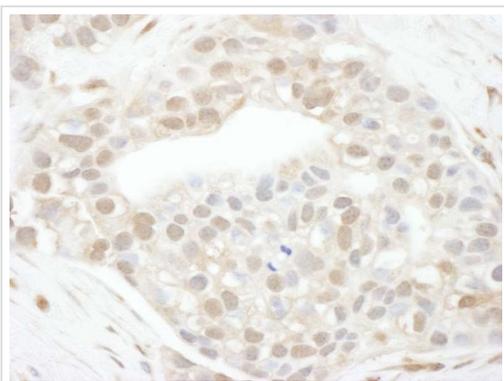
Immunoprecipitation - Anti-Cyclin T1 antibody  
(ab225872)

Cyclin T1 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate (1 mg for IP, 20% of IP loaded) with ab225872 at 6 µg/mg lysate. Western blot was performed from the immunoprecipitate using ab225872 at 1 µg/ml.

Lane 1: ab225872 IP in HeLa whole cell lysate.

Lane 2: Control IgG IP in HeLa whole cell lysate.

Detection: Chemiluminescence with exposure time of 3 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin T1 antibody  
(ab225872)

Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained for Cyclin T1 using ab225872 at 1/200 dilution in immunohistochemical analysis.

Detection: DAB staining.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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