For Research Use Only

Cyclin E1 Polyclonal antibody

Catalog Number:11554-1-AP Featured Product 267 Publications

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Basic Information

Catalog Number:
11554-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2110

GenBank Accession Number:
BC035498

GeneID (NCBI):
898

Full Name:
cyclin E1

Calculated MW:
410 aa, 47 kDa

Observed MW:
47 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:400-1:1600

Applications

Tested Applications:
FC, IHC, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, rat, mouse, zebrafish, pig, Artemia sinica

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HT-29 cells, NIH/3T3 cells, mouse heart tissue, HeLa cells, Jurkat cells, human lung tissue, MCF-7 cells, HepG2 cells, K-562 cells, human placenta tissue

IHC : mouse testis tissue, human placenta tissue

Background Information

Cyclin E1 (CCNE1) is a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. CCNE1, an essential cyclin activating Cdk2, regulates the G1-S phase transition of the mammalian cell division cycle. Its timing expression plays a direct role in the initiation of DNA replication , the control of histone biosynthesis, and the centrosome cycle. CCNE1 is associated with disease progression in various malignancies and is associated clinically with poor prognosis. Two bands of Cyclin E1 were expressed in U2OS and MDA-MB-231 cells (PMID:9858585, PMID: 24112607).

Notable Publications

Author	Pubmed ID	Journal	Application
Yong Zhu	34660260	Front Oncol	WB
Yong-Li Zhang	34679694	Antioxidants (Basel)	WB
Hao Yang	27708221	Oncotarget	WB

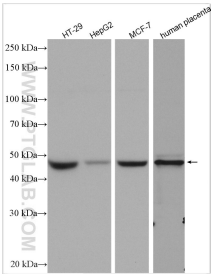
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

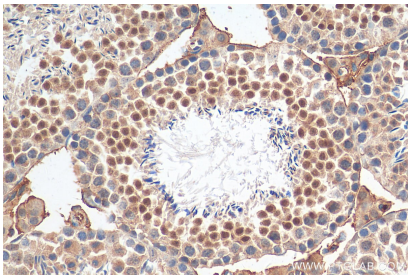
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

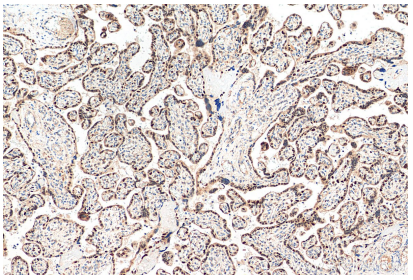
Selected Validation Data



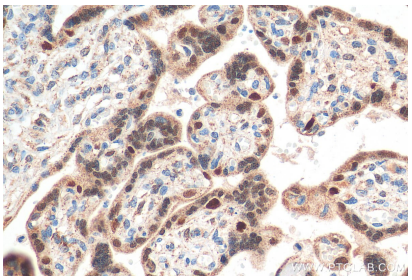
Various lysates were subjected to SDS PAGE followed by western blot with 11554-1-AP (Cyclin E1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



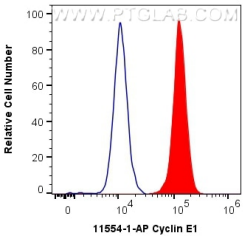
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 11554-1-AP (Cyclin E1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



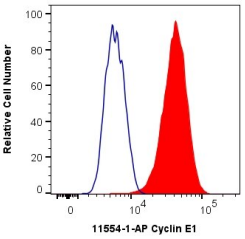
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 11554-1-AP (Cyclin E1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



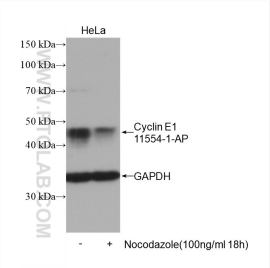
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 11554-1-AP (Cyclin E1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human Cyclin E1 (11554-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human Cyclin E1 (11554-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Non-treated HeLa and nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 11554-1-AP (Cyclin E1 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.