

# Cyclin E Monoclonal Antibody (HE12)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	HE12
Conjugate	Unconjugated
Immunogen	Recombinant human cyclin E protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10984356

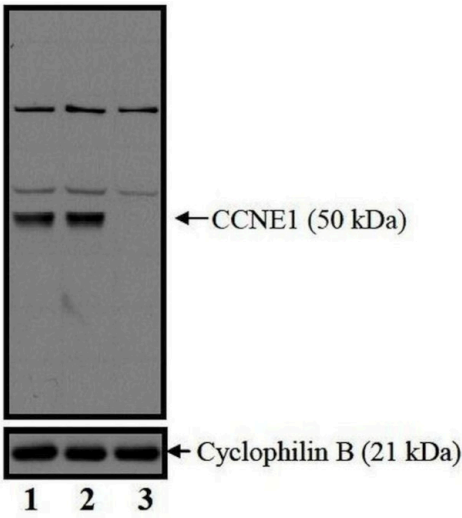
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	21 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	1-2 µg/test	1 Publication

## Product Specific Information

MA5-14336 targets Cyclin E in FACS, IF, IHC (P), and WB applications and shows reactivity with Human and Mouse samples.

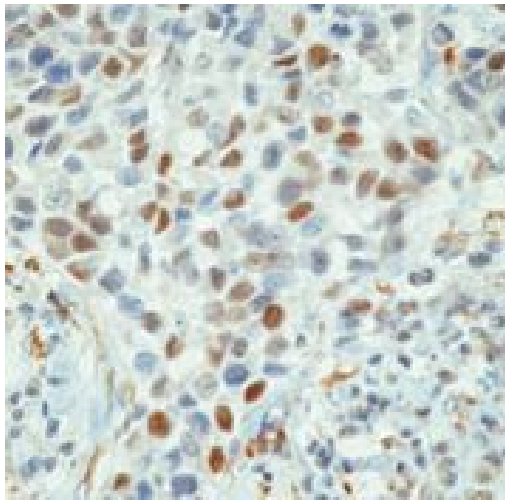
The MA5-14336 immunogen is recombinant human cyclin E protein.

Product Images For Cyclin E Monoclonal Antibody (HE12)



Cyclin E Antibody (MA5-14336)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with Cyclin E siRNA and decrease in signal intensity was observed in western blot application using anti-Cyclin E (catalog# MA5-14333) See more on Knockout and knockdown validation info. {KD}

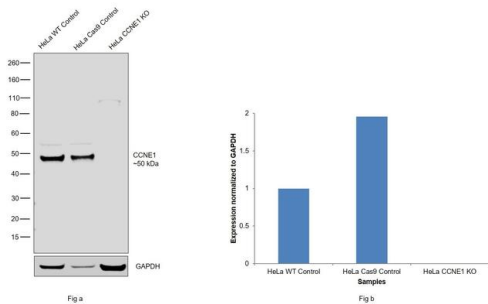


Cyclin E Antibody (MA5-14336) in IHC (P)

Formalin-fixed, paraffin-embedded human breast carcinoma stained with Cyclin E antibody using peroxidase-conjugate and DAB chromogen. Note nuclear staining of tumor cells.

Cyclin E Antibody (MA5-14336) in WB

Knockout of CCNE1 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, AssayID CRISPR745911\_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of CCNE1 was performed by loading 30 µg of HeLa wild type (Lane 1), HeLa CAS9 (Lane 2) and HeLa CCNE1 KO (Lane 3) modified whole cell extracts. The samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-Cyclin E Monoclonal Antibody (HE12) using 1 µg/mL dilution (Product # MA5-14336) and Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to CCNE1.



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Western Blot (21)

<p>American journal of cancer research</p> <p><b>Bio-nanoparticle based therapeutic vaccine induces immunogenic response against triple negative breast cancer.</b></p> <p>"MA5-14336 was used in Western Blotting to conclude that phage vaccine targeting a TAA (ASPH) combined with DOX successfully induces ICD and initiates CD8+ T cell-mediated antitumor immunity in breast tumors."</p> <p>Authors: Bai X,Zhou Y,Lin Q,Huang CK,Zhang S,Carlson RI,Ghanbari H,Sun B,Wands JR,Dong X</p>	<p>Year 2021</p> <p>Species Human</p>
<p>The Journal of biological chemistry</p> <p><b>Cell-specific Kaiso (ZBTB33) Regulation of Cell Cycle through Cyclin D1 and Cyclin E1.</b></p> <p>"Published figure using Cyclin E monoclonal antibody (Product # MA5-14336) in Western Blot"</p> <p>Authors: Pozner A,Terooatea TW,Buck-Koehtop BA</p>	<p>Year 2016</p> <p>Species Human</p>

View more WB references on thermofisher.com

Immunohistochemistry (5)

<p>PloS one</p> <p><b>Differences in the tumor microenvironment between African-American and European-American breast cancer patients.</b></p> <p>"MA5-14336 was used in immunohistochemistry to compare tumor microenvironments between African-American and European-American breast cancer patients"</p> <p>Authors: Martin DN,Boersma BJ,Yi M,Reimers M,Howe TM,Yfantis HG,Tsai YC,Williams EH,Lee DH,Stephens RM,Weissman AM,Amb S</p>	<p>Year 2009</p> <p>Species Human</p>
<p>Journal of assisted reproduction and genetics</p> <p><b>Optimization of endometrial preparation results in a normal endometrial function test (EFT) and good reproductive outcome in donor ovum recipients.</b></p> <p>"MA5-14336 was used in immunohistochemistry to investigate the predictive value of endometrial function test in the characterization of uterine preparation of recipients using donor oocytes"</p> <p>Authors: Kliman HJ,Honig S,Walls D,Luna M,McSweet JC,Copperman AB</p>	<p>Year 2007</p> <p>Species Human</p> <p>Dilution 1:100</p>

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More applications with references on thermofisher.com

- IHC (P) (1)
- ICC/IF (4)
- Flow (1)

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