

PER1 Polyclonal Antibody

Product Details	
Size	200 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Fruit fly, Hamster, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: P(39) S L A D D T D A N S N G(51) C
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2268030

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	11 Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Immunohistochemistry (Frozen) (IHC (F))	1:50-1:500	-
Immunocytochemistry (ICC/IF)	1:10-1:200	3 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

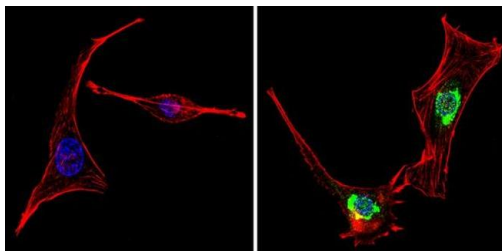
Product Specific Information

PA1-524 detects PER1 from human and mouse tissues as well as recombinant mouse PER1.

PA1-524 has been successfully used in Western blot, immunofluorescence and immunohistochemistry procedures. By Western blot, this antibody detects an ~136 kDa protein representing overexpressed recombinant mouse PER1 protein. Immunofluorescence staining of PER1 in mouse testes with PA1-524 results in cytoplasmic staining.

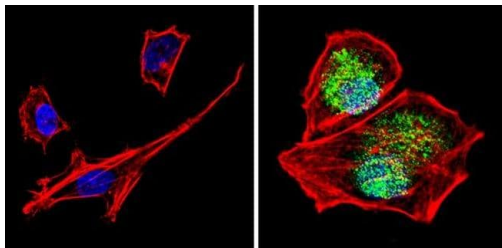
PA1-524 immunizing peptide corresponds to amino acid residues 39-51 from mouse PER1. PA1-524 immunizing peptide (Cat. # PEP-076) is available for use in neutralization and control experiments.

Product Images For PER1 Polyclonal Antibody



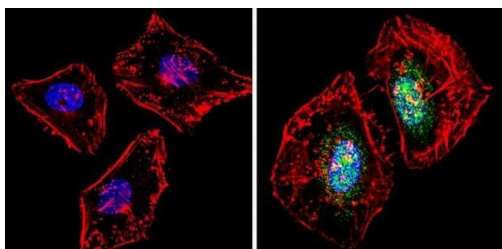
PER1 Antibody (PA1-524) in ICC/IF

Immunofluorescent analysis of PER1 (green) showing staining in the cytoplasm and nucleus of NIH-3T3 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a PER1 polyclonal antibody (Product # PA1-524) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



PER1 Antibody (PA1-524) in ICC/IF

Immunofluorescent analysis of PER1 (green) showing staining in the cytoplasm and nucleus of SH-SY5Y cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a PER1 polyclonal antibody (Product # PA1-524) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



PER1 Antibody (PA1-524) in ICC/IF

Immunofluorescent analysis of PER1 (green) showing staining in the cytoplasm and nucleus of HeLa cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a PER1 polyclonal antibody (Product # PA1-524) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

[View more figures on thermofisher.com](https://www.thermofisher.com)

24 References

Western Blot (11)

Nature communications

Epigenetic regulation of the circadian gene *Per1* contributes to age-related changes in hippocampal memory.

"PA1-524 was used in Western Blotting to investigate whether age-related disruption of the circadian clock causes impaired hippocampal memory."

Authors: Kwapis JL, Alagband Y, Kramár EA, López AJ, Vogel Ciernia A, White AO, Shu G, Rhee D, Michael CM, Montellier E, Liu Y, Magnan CN, Chen S, Sassone-Corsi P, Baldi P, Matheos DP, Wood MA

Species
Mouse

Dilution
1:500

Year
2018

Cell reports

FAD Regulates CRYPTOCHROME Protein Stability and Circadian Clock in Mice.

"PA1524 was used in western blot to investigate the role of flavin adenine dinucleotide as a mediator of the clock and metabolism"

Authors: Hirano A, Braas D, Fu YH, Ptáček LJ

Species
Mouse

Dilution
Not Cited

Year
2017

[View more WB references on thermofisher.com](#)

Immunohistochemistry (8)

Scientific reports

Inhibition of casein kinase 1/improves cognitive-affective behavior and reduces amyloid load in the APP-PS1 mouse model of Alzheimer's disease.

"PA1-524 was used in Immunohistochemistry-immunofluorescence to examine how inhibition of CK1/ with PF-670462 impacts regional A and circadian gene expression."

Authors: Sundaram S, Nagaraj S, Mahoney H, Portugues A, Li W, Millsaps K, Faulkner J, Yunus A, Burns C, Bloom C, Said M, Pinto L, Azam S, Flores M, Henriksen A, Gamsby J, Gulick D

Species
Mouse

Dilution
Not Cited

Year
2019

Chronobiology international

Modulation of mammalian circadian rhythms by tumor necrosis factor-.

"PA1-524 was used in immunohistochemistry to study the mechanism by which TNF-alpha modulates the mammalian circadian rhythm"

Authors: Paladino N, Mul Fedele ML, Duhart JM, Marpegan L, Golombek DA

Species
Mouse

Dilution
1:600

Year
2014

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC/IF (3)

IP (1)

Misc (1)

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