

Product datasheet

Anti-PER3 antibody [4B9D7] ab201940

1 References 6 Images

Overview

<b>Product name</b>	Anti-PER3 antibody [4B9D7]
<b>Description</b>	Mouse monoclonal [4B9D7] to PER3
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human PER3 aa 723-954. (Purified from E.coli). Sequence:  DSTSKQTRSAGCRKGGKHKRKKLPEPPDSSSSNTGSG PRRGAHQNAQPCCP SAASSPHTSSPTFPPAAMVPSQAPYLVPAPFLPAATS PGREYAAPGTAPE GLHGLPLSEGLQPYAPFPYLDTFMTVFLPDPPVCP LLSPSFLPCPFLG ATASSAISPSMSSAMSPTLDPPPSVTSQRREEEKWE AQSEGHFPITSRSS SPLQLNLLQEEMPRPSESPDQMRRNTCPQTEY  Database link: <a href="#">P56645</a>

 [Run BLAST with](#)

 [Run BLAST with](#)

<b>Positive control</b>	Human PER3 (aa723-954) recombinant protein; PER3 (aa723-954)-hlgGfC transfected HEK293 cell lysate; HeLa cells; Human ovarian cancer and rectum cancer tissues.
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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: 0.05% Sodium azide Constituent: 99% PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal

<b>Clone number</b>	4B9D7
<b>Isotype</b>	IgG2b

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab201940** 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
IHC-P		1/200 - 1/1000.
WB		1/500 - 1/2000. Predicted molecular weight: 132 kDa.
ICC/IF		1/200 - 1/1000.
Flow Cyt		1/200 - 1/400. <a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

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## Target

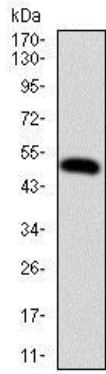
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<b>Function</b>	Component of the circadian clock mechanism which is essential for generating circadian rhythms. Can bind heme.
<b>Sequence similarities</b>	Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
<b>Post-translational modifications</b>	Phosphorylation appears to require association with PER1 and translocation to the nucleus. Ubiquitinated.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Mainly cytoplasmic. Translocates to the nucleus through binding PER1, PER2, CRY1 or CRY2, but not TIMELESS.

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## Images

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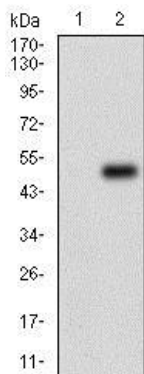


Western blot - Anti-PER3 antibody [4B9D7] (ab201940)

Anti-PER3 antibody [4B9D7] (ab201940) at 1/500 dilution + Human PER3 (aa723-954) recombinant protein

**Predicted band size:** 132 kDa

Expected MWt is 50.7 kDa.



Western blot - Anti-PER3 antibody [4B9D7] (ab201940)

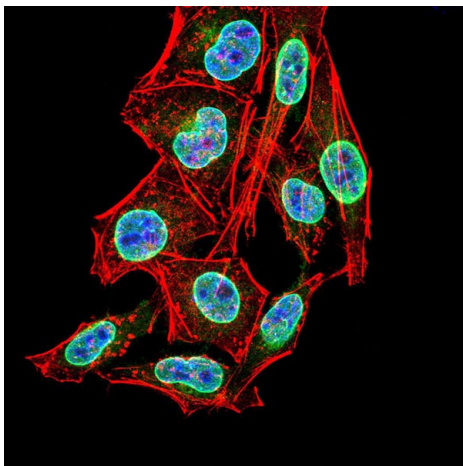
**All lanes :** Anti-PER3 antibody [4B9D7] (ab201940) at 1/500 dilution

**Lane 1 :** HEK293 cell lysate

**Lane 2 :** PER3 (aa723-954)-hlgGfc transfected HEK293 cell lysate

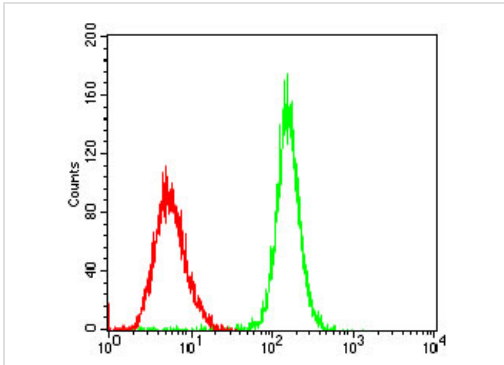
**Predicted band size:** 132 kDa

(Expected MW is 50.7 kDa)



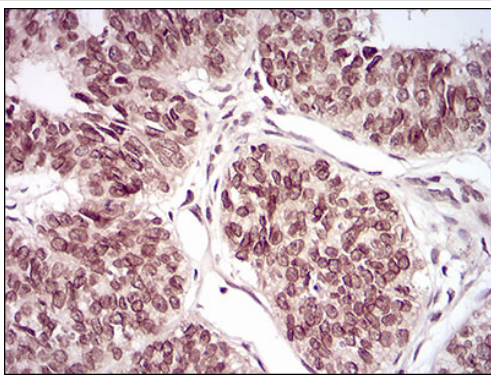
Immunocytochemistry/ Immunofluorescence - Anti-PER3 antibody [4B9D7] (ab201940)

Immunofluorescent analysis of HeLa cells labeling PER3 with ab201940 at 1/200 dilution. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



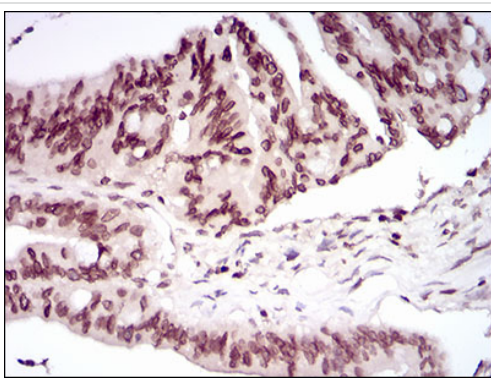
Flow Cytometry - Anti-PER3 antibody [4B9D7]  
(ab201940)

Flow cytometric analysis of HeLa cells labeling PER3 with ab201940 at 1/200 dilution (green) compared to a negative control (red).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PER3 antibody [4B9D7]  
(ab201940)

Immunohistochemical analysis of paraffin-embedded Human ovarian cancer tissue labeling PER3 with ab201940 at 1/200 dilution, with DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PER3 antibody [4B9D7]  
(ab201940)

Immunohistochemical analysis of paraffin-embedded Human rectum cancer tissue labeling PER3 with ab201940 at 1/200 dilution, with DAB staining.

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