

anti-Human PER2 Polyclonal Antibody | anti-PER2 antibody

Anti-PER2 Antibody

CATALOG # AAA46316	REACTIVITY Human	APPLICATIONS Western Blot
------------------------------	----------------------------	-------------------------------------

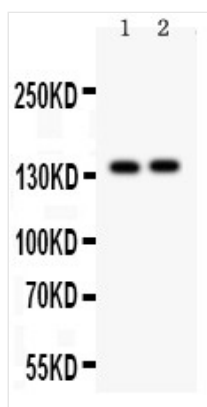
PRODUCT SYNONYMS

PER2; Polyclonal Antibody; Anti-PER2 Antibody; Period circadian protein homolog 2; Circadian clock protein PERIOD 2; FASPS; FASPS1; hPER 2; hPER2; KIAA0347; OTTHUMP00000164476; PER 2; PER2_HUMAN; Period 2; Period 2 isoform 1; Period circadian clock 2; Period circadian protein 2; Period homolog 2 (Drosophila); Period homolog 2; Period2; period circadian clock 2; anti-PER2 antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	1255
Applicable Applications for anti-PER2 antibody	WB (Western Blot)
Immunogen	E Coli-derived human PER2 recombinant protein (Position: N13-K330). Human PER2 shares 84% and 83% amino acid (aa) sequence identity with mouse and rat PER2, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Anti- PER2 Picoband antibody, AAA46316, Western blotting All lanes: Anti PER2 (AAA46316) at 0.5ug/mL Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: PANC Whole Cell Lysate at 40ug Predicted bind size: 136K Observed bind size: 136KD

ADDITIONAL INFORMATION

Related Product Information for anti-PER2 antibody	Description: Rabbit IgG polyclonal antibody for Period circadian protein homolog 2(PER2) detection. Tested with WB in Human. Background: The PER2 gene encodes the period circadian protein homolog 2 protein in humans. This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. PER2 is mapped to 2q37.3. It has been showed that PER2 can positively stimulate activity of the Bmal1-Npas2 transcription complex and, in turn, Npas2 transcriptionally regulates delta-aminolevulinate synthase. PER2 is involved in a negative-feedback loop that attenuates estrogen stimulation and links the circadian cycle to estrogen receptor signaling. The rhythmic levels of PER2 are critical for circadian oscillations in cells and intact organisms. What's more, the PER2 gene also functions in tumor suppression by regulating DNA damage-responsive pathways.
References	1. Chen, R., Schirmer, A., Lee, Y., Lee, H., Kumar, V., Yoo, S.-H., Takahashi, J. S., Lee, C. Rhythmic PER abundance defines a critical nodal point for negative feedback within the circadian clock mechanism. Molec. Cell 36: 417-430, 2009. 2. Fu, L., Pelicano, H., Liu, J., Huang, P., Lee, C. C. The circadian gene Period2 plays an important role in tumor suppression and DNA damage response in vivo. Cell 111: 41-50, 2002. Note: Erratum: 111: 1055 only, 2002. 3. Gery, S., Virk, R. K., Chumakov, K., Yu, A., Koeffler, H. P. The clock gene Per2 links the circadian system to the estrogen receptor. Oncogene 26: 7916-7920, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12707562
NCBI GeneID	8864
NCBI Accession #	NP_073728.1
NCBI GenBank Nucleotide #	NM_022817.2
UniProt Accession #	O15055; Q4ZG49; Q6DT41; Q9UQ45; A2I2P7
NCBI Official Full Name	period circadian protein homolog 2
NCBI Official Synonym Full Names	period circadian clock 2
NCBI Official Symbol	PER2
NCBI Official Synonym Symbols	FASPS; FASPS1
NCBI Protein Information	period circadian protein homolog 2
UniProt Protein Name	Period circadian protein homolog 2
UniProt Gene Name	PER2
UniProt Synonym Gene Names	KIAA0347; hPER2
UniProt Entry Name	PER2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.