

Datasheet for ABIN6145448
anti-PER1 antibody (AA 1-200)

6 Images

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Overview

Quantity:	100 µL
Target:	PER1
Binding Specificity:	AA 1-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PER1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human PER1 (NP_002607.2).
Sequence:	MSGPLEGADG GGDPRPGESF CPGGVPSGP PQHRPCGPS LADDTDANSN GSSGNESNGH ESRGASQRSS HSSSSGNGKD SALLETTES KSTNSQSPSP PSSSIAYSL SASSEQDNPS TSGCSSEQSA RARTQKELMT ALRELKLRLP PERRGKGRSG TLATLQYALA CVKQVQANQE YYQQWSLEEG EPCSMDMSTY
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

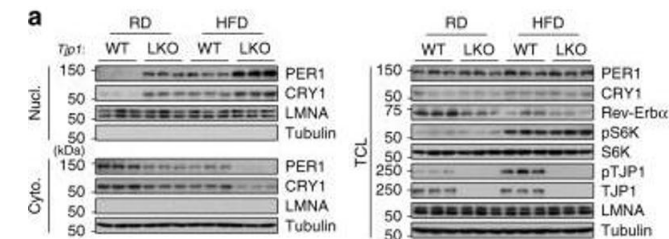
Target:	PER1
Alternative Name:	PER1 (PER1 Products)
Background:	<p>This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers. Alternative splicing has been observed in this gene, however, these variants have not been fully described.,PER1,PER,RIGUI,hPER,Epigenetics & Nuclear Signaling,Transcription Factors,Neuroscience,PER1</p>
Molecular Weight:	91 kDa/136 kDa
Gene ID:	5187
UniProt:	O15534
Pathways:	Photoperiodism

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

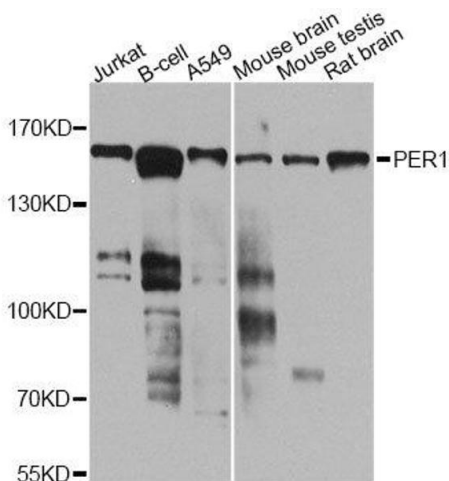


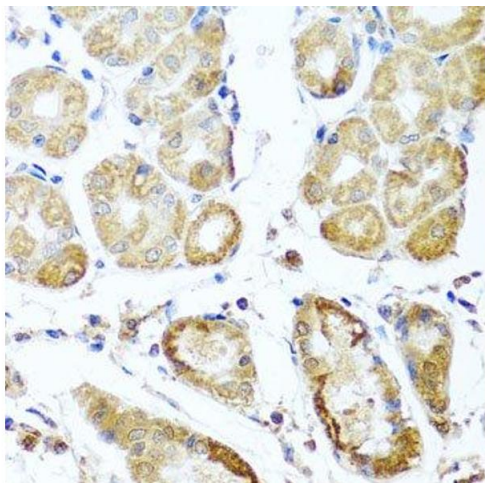
Western Blotting

Image 1. TJP1 deficiency enhances insulin sensitivity. a-e Effect of Tjp1 LKO on nuclear PER1 levels evaluated by immunoblots a, statistical analysis of PER1 b, and CRY1 c in Nucl., statistical analysis of Rev-Erba in TCL d, and Rev-Erba expression e in liver extracts from mice fed on a RD or HFD for 16 weeks. n=5 mice. f-i Effect of Tjp1 LKO on blood glucose f, plasma insulin levels g, plasma triglyceride levels h and hepatic triglyceride contents i from mice fed on a RD or HFD for 16 weeks. TGs triglycerides. n=8 mice. j Hematoxylin and eosin staining of liver from WT and Tjp1 LKO mice fed on a RD or HFD for 16 weeks. Scale bar, 50µm. k-o Glucose infusion rate (GIR, k), glucose disposal rate (GDR, l), percentage suppression of HGP m, insulin-stimulated GDR (IS-GDR, n) and percentage of free fatty acid (FFA) suppression o from WT and Tjp1 LKO mice fed on a RD or HFD for 16 weeks. n=6 mice. Data are shown as mean±s.e.m. Comparison of different groups was carried out using two-way ANOVA. *P<0.05, **P<0.01, ***P<0.001. Source data are provided as a Source Data file. - figure provided by CiteAb. Source: PMID32001717

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PER1 antibody.





Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded human stomach using PER1 antibody.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6145448.