

Recombinant Human PER2 protein ab112382

1 图像

描述

产品名称	重组人PER2蛋白
生物活性	Useful for Antibody Production and Protein Array
表达系统	Wheat germ
Accession	<u>O15055</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	MNGYAEFPPSPSNPTKEPVEPQPSQVPLQEDVDMSSGSSGHE TNENCSTG RDSQGSDCDDSGKELGMLVEPPDARQSPDTFSLMMAKSEHNP STSGCSSD
预测分子量	37 kDa including tags
氨基酸	1 to 100

技术指标

Our **Abpromise guarantee** covers the use of **ab112382** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	ELISA SDS-PAGE Western blot
形式	Liquid
补充说明	This product is useful for Antibody Production and Protein Array.

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00
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Constituents: 0.31% Glutathione, 0.79% Tris HCl

Glutathione is reduced

常规信息

功能	Component of the circadian clock mechanism which is essential for generating circadian rhythms. Negative element in the circadian transcriptional loop. Influences clock function by interacting with other circadian regulatory proteins and transporting them to the nucleus. Negatively regulates CLOCK NPAS2-BMAL1 BMAL2-induced transactivation.
组织特异性	Widely expressed. Found in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. High levels in skeletal muscle and pancreas. Low level in lung.
疾病相关	Defects in PER2 are a cause of familial advanced sleep-phase syndrome (FASPS) [MIM:604348]. FASPS is characterized by very early sleep onset and offset. Individuals are 'morning larks' with a 4 hours advance of the sleep, temperature and melatonin rhythms.
序列相似性	Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
翻译后修饰	Phosphorylated by CSNK1E and CSNK1D. Phosphorylation results in PER2 protein degradation.
细胞定位	Nucleus. Cytoplasm. Mainly nuclear. Nucleocytoplasmic shuttling is effected by interaction with other circadian core oscillator proteins and/or by phosphorylation. Retention of PER1 in the cytoplasm occurs through PER1-PER2 heterodimer formation or by interaction with CSNK1E and/or phosphorylation which appears to mask the PER nuclear localization signal. Also translocated to the nucleus by CRY1 or CRY2.

图片



SDS-PAGE - Recombinant Human PER2 protein
(ab112382)

ab112382 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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