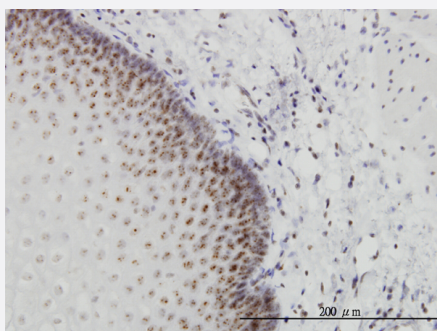


PER2 monoclonal antibody (M01), clone 5C10

Catalog # H00008864-M01

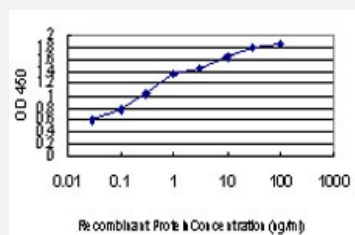
Size 100 ug

Applications



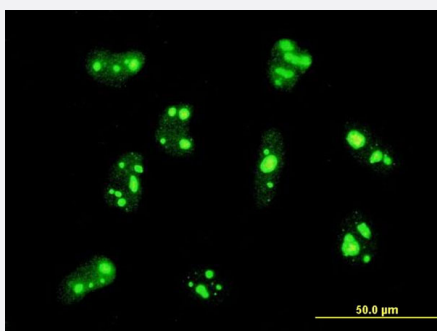
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PER2 on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 1 ug/ml]



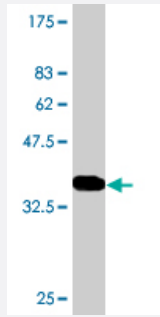
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PER2 is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PER2 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PER2.
Immunogen	PER2 (NP_073728, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MNGYAEFPPSPSNPTKEPVQPQSQVPLQEDVDMSSGSSGHETNENCSTGRDSQGSDCDDSGKELGMLVEPPDARQSPDTFSLMMAKSEHNPSTSGC SSD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (77); Rat (77)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PER2 on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PER2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PER2 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — PER2

Entrez GeneID [8864](#)

GeneBank Accession# [NM_022817](#)

Protein Accession# [NP_073728](#)

Gene Name PER2

Gene Alias FASPS, KIAA0347

Gene Description period homolog 2 (Drosophila)

Omim ID [603426](#) [604348](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. Circadian expression in the suprachiasmatic nucleus continues in constant darkness, and a shift in the light/dark cycle evokes a proportional shift of gene expression in the suprachiasmatic nucleus. The specific function of this gene is not yet known. [provided by RefSeq]

Other Designations period 2|period circadian protein 2|period, Drosophila, homolog of, 2

Publication Reference

- [Aberrant expression of Per1, Per2 and Per3 and their prognostic relevance in non-small cell lung cancer.](#)

Liu B, Xu K, Jiang Y, Li X.

International Journal of Clinical and Experimental Pathology 2014 Oct; 7(11):7863.

Application: IHC-P, Human, Lung, NSCLC

- [Prognostic relevance of Period1 \(Per1\) and Period2 \(Per2\) expression in human gastric cancer.](#)

Zhao H, Zeng ZL, Yang J, Jin Y, Qiu MZ, Hu XY, Han J, Liu KY, Liao JW, Xu RH, Zou QF.

International Journal of Clinical and Experimental Pathology 2014 Jan; 7(2):619.

Application: IHC-P, Human, Gastric

Pathway

- [Circadian rhythm - mammal](#)

Disease

- [Alcoholism](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Behavior Therapy](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Cocaine-Related Disorders](#)
- [Cognitive Therapy](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Interview](#)
- [Mood Disorders](#)
- [NARP](#)
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- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)
- [Weight Loss](#)