Per2 rabbit pAb

Cat#: orb770772 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	Per2 rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Period Circadian Protein 2. AA range:636-685
Specificity	Per2 Polyclonal Antibody detects endogenous levels of Per2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Period circadian protein homolog 2
Gene Name	PER2
Cellular localization	[Isoform 1]: Nucleus . Cytoplasm . Cytoplasm, perinuclear region . Nucleocytoplasmic shuttling is effected by interaction with other circadian core oscillator proteins and/or by phosphorylation. Translocate to the nucleus after phosphorylation by CSNK1D o
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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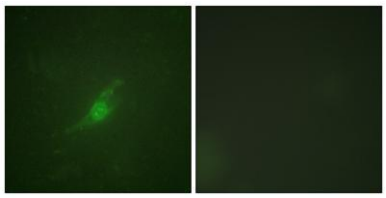
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	8864
Human Swiss-Prot Number	O15055
Alternative Names	PER2; KIAA0347; Period circadian protein homolog 2; hPER2; Circadian clock protein PERIOD 2
Background	This gene is a member of the Period family of genes and is expressed in 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 and have been linked to sleep disorders. [provided by RefSeq, Jan 2014],



Immunofluorescence analysis of NIH/3T3 cells, using Period Circadian Protein 2 Antibody. The picture on the right is blocked with the synthesized peptide.

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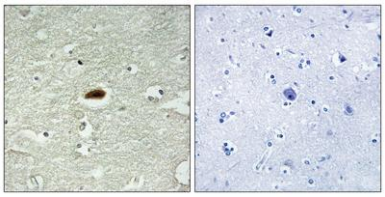

Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Period Circadian Protein 2 Antibody. The picture on the right is blocked with the synthesized peptide.

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