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Per2 (phospho Ser662) Polyclonal Antibody

Catalog No	YP-Ab-01362
Isotype	lgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	PER2
Protein Name	Period circadian protein homolog 2
Immunogen	The antiserum was produced against synthesized peptide derived from human Period Circadian Protein 2 around the phosphorylation site of Ser662. AA range:636-685
Specificity	Phospho-Per2 (S662) Polyclonal Antibody detects endogenous levels of Per2 protein only when phosphorylated at S662.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PER2; KIAA0347; Period circadian protein homolog 2; hPER2; Circadian clock protein PERIOD 2
Observed Band	120kD
Cell Pathway	[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 or CSNK1E. Also translocated to the nucleus by CRY1 or CRY2. PML regulates its nuclear localization; [Isoform 2]: Nucleus, nucleolus .
Tissue Specificity	Widely expressed. Found in heart, brain, placenta, lung, liver, skeleatal muscle, kidney and pancreas. High levels in skeletal muscle and pancreas. Low levels in lung. Isoform 2 is expressed in keratinocytes (at protein level).
Function	disease: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.,function:Component of the circadian clock mechanism which is essential for generating circadian rhythms. Negative elemen
	in the circadian transcriptional loop. Influences clock function by interacting with other circadian regulatory proteins and transporting them to the nucleus.



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	Negatively regulates CLOCK NPAS2-BMAL1 BMAL2-induced transactivation.,induction:Serum-induced levels in fibroblasts show circadian oscillations. Maximum levels after 1 hour stimulation, minimum levels after 12 hours. Another peak is then observed after 24 hours.,PTM:Phosphorylated by CSNK1E and CSNK1D. Phosphorylation results in PER2 protein degradatio
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

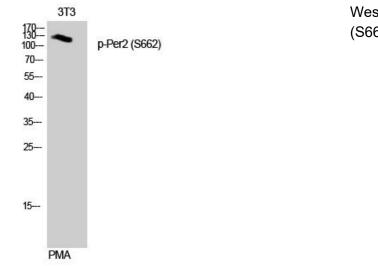


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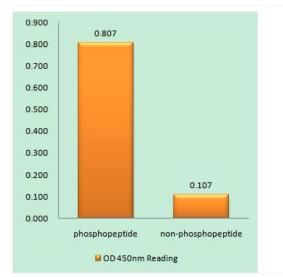
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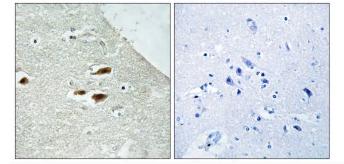
Products Images



Western Blot analysis of 3T3 cells using Phospho-Per2 (S662) Polyclonal Antibody diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Period Circadian Protein 2 (Phospho-Ser662) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Period Circadian Protein 2 (Phospho-Ser662) Antibody. The picture on the right is blocked with the phospho peptide.



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170 Period Circadian Protein 2 (pSer662)	170 130 95 72	Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using Period Circad Protein 2 (Phospho-Ser662) Antibody. The lane on t right is blocked with the phospho peptide.
(KD)	 (KD)	