



Per2 (phospho Ser662) rabbit pAb

Cat No.:ES7896

For research use only

Overview

Product Name	Per2 (phospho Ser662) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
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.
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 or CSNK1E. Also translocated to the nucleus by CRY1 or CRY2. PML regulates its nuclear localization. . ; [Isoform 2]: Nucleus, nucleolus .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	120kD



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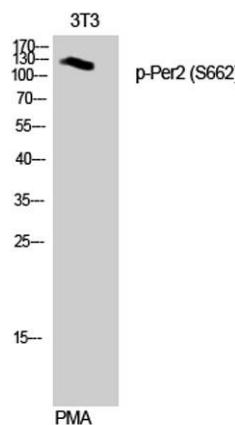
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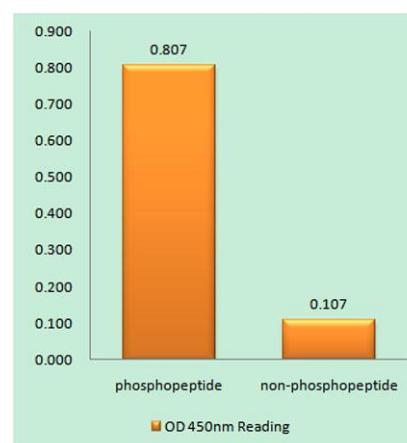
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Human Gene ID	8864
Human Swiss-Prot Number	O15055
Alternative Names	PER2; KIAA0347; Period circadian protein homolog 2; hPER2; Circadian clock protein PERIOD 2
Background	<p>This gene is a member of the Period family of genes and is expressed in a 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.</p> <p>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],</p>



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

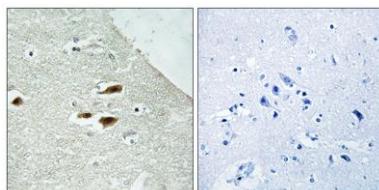


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Period Circadian Protein 2 (Phospho-Ser662) Antibody

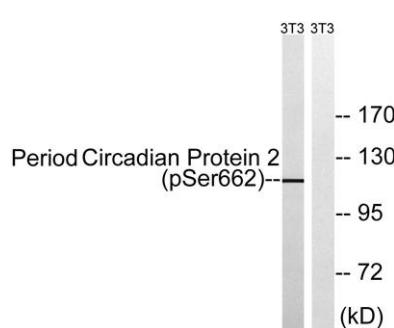




Immunohistochemistry analysis of paraffin-embedded human brain, using Period Circadian Protein 2 (Phospho-Ser662) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using Period Circadian Protein 2 (Phospho-Ser662) Antibody. The lane on the right is blocked with the phospho peptide.



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