

## PER2 polyclonal antibody

Catalog: BCP01289

Host: Rabbit

Reactivity: Human,Pig

### BackGround:

Biological timepieces called circadian Clocks are responsible for the regulation of hormonal rhythms, sleep cycles and other behaviors. The suprachiasmatic nucleus (SCN), which is located in the brain, was the first mammalian circadian Clock to be discovered. A number of transcription factors appearing to be molecular components of the SCN Clock have been identified. Mutations within the Clock gene increase the length of the endogenous period and cause a loss of rhythmicity of circadian oscillations. Three mammalian period proteins, designated Per1, Per2 and Per3, exhibit circadian rhythms in the SCN. During subjective night, Per1 and Per2 RNA levels increase in response to light pulses while Per3 RNA levels show no change in response to light pulses. Tim, timeless, interacts with Per1 as well as Per2; and Tim and Per1 negatively regulate Clock-BMAL1-induced transcription.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

~ 155 kDa

### Swiss-Prot:

O15055

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:2000~1:5000

IHC: 1:50~1:200

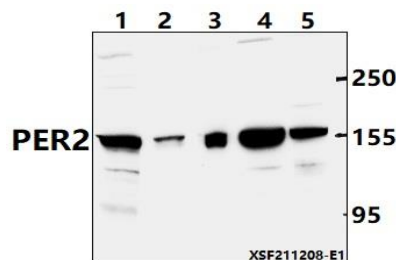
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

PER2 polyclonal antibody detects endogenous levels of PER2 protein.

### DATA:



Western blot (WB) analysis of PER2 polyclonal antibody at 1:2000 dilution

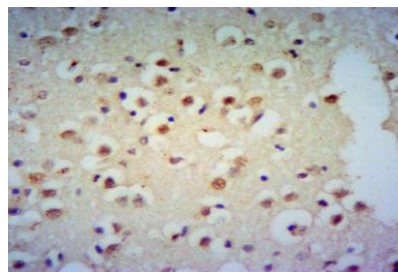
Lane1:A549 whole cell lysate(40ug)

Lane2:The Spleen tissue lysate of Pig(40ug)

Lane3:The Lung tissue lysate of Pig(40ug)

Lane4:MCF-7 whole cell lysate(40ug)

Lane5:Hela whole cell lysate(40ug)



Immunohistochemistry of paraffin-embedded Human Brain using PER2 antibody at dilution of 1:50.

### Note:

For research use only, not for use in diagnostic procedure.