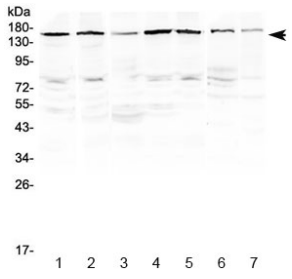
PER3 Antibody (RQ4093)

Catalog No.	Formulation	Size
RQ4093	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P56645
Applications	Western Blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This PER3 antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) MCF7, 3) A549, 4) HepG2, 5) COLO320, 6) rat heart and 7) mouse skeletal muscle lysate with PER3 antibody at 0.5ug/ml. Predicted molecular weight ~132 kDa, observed here at ~160 kDa.

Description

The PER3 gene encodes the period circadian protein homolog 3 protein in humans. 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 have been linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the PER3 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein corresponding to amino acids Q1085-D1199 was used as the immunogen for the PER3 antibody.

Storage

After reconstitution, the PER3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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