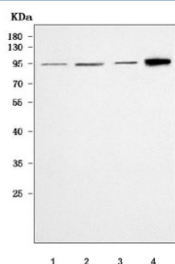


PKP2 Antibody / Plakophilin 2 (RQ7820)

Catalog No.	Formulation	Size
RQ7820	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
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q99959
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This PKP2 antibody is available for research use only.



Western blot testing of 1) human 293T, 2) human HeLa, 3) rat heart and 4) mouse heart tissue lysate with PKP2 antibody. Predicted molecular weight: 93-97 kDa.

Description

Plakophilin-2 is a protein that in humans is encoded by the PKP2 gene. This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This gene may regulate the signaling activity of beta-catenin and is required to maintain transcription of genes that control intracellular calcium cycling including ryanodine receptor 2, ankyrin-B, triadin, and calcium channel, voltage-dependent, L type, alpha 1C. Mutations in this gene are associated with different inherited cardiac conditions including Arrhythmogenic Cardiomyopathy, Brugada Syndrome, and Idiopathic Ventricular Fibrillation. A processed pseudogene with high similarity

to this gene has been mapped to chromosome 12p13.

Application Notes

Optimal dilution of the PKP2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant mouse protein (amino acids E9-D866) was used as the immunogen for the PKP2 antibody.

Storage

After reconstitution, the PKP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.