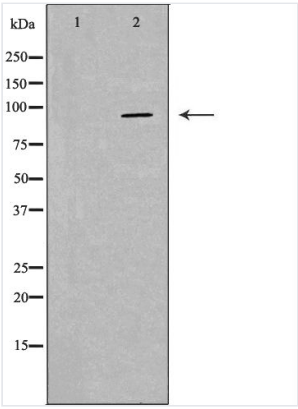
PKP2 Antibody – Rabbit Polyclonal

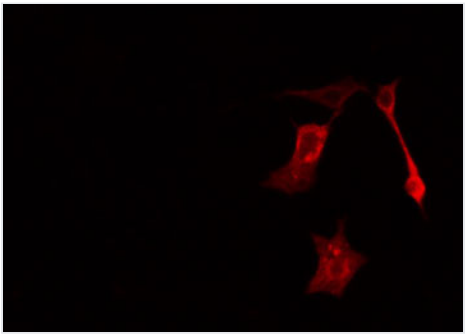
PRODUCT OVERVIEW

Product Name	PKP2, Polyclonal Antibody
Full Product Name	PKP2 Antibody
Product Gene Name	anti-PKP2 antibody
Product Synonym Names	ARVD 9; ARVD9; PKP 2; PKP2; PKP2_HUMAN; Plakophilin-2; Plakophilin2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	PKP2 antibody detects endogenous levels of total PKP2
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PKP2 peptide (MBS9626734) is used for blocking the activity of PKP2 antibody (MBS9608022)
Molecular Weight	Observed: 94 kDa Predicted: 98 kDa
3D Structure	ModBase 3D Structure for Q99959
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human PKP2
Subcellular Location	Nucleus. Cell Junction > Desmosome. Nuclear and associated with desmosomes.
Tissue Specificity	Detected in heart right ventricle (at protein level). Widely expressed. Found at desmosomal plaques in simple and stratified epithelia and in non-epithelial tissues such as myocardium and lymph node follicles. In most stratified epithelia found in the desmosomes of the basal cell layer and seems to be absent from suprabasal strata.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PKP2 antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-PKP2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500

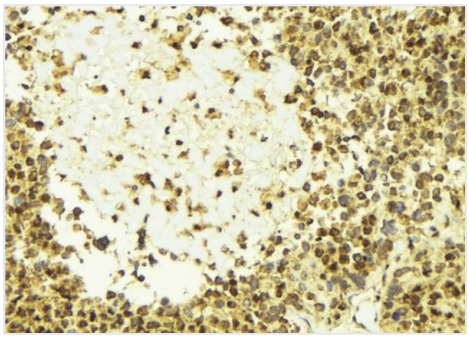
Related Product Information for anti-PKP2 antibody	Description: This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This gene product may regulate the signaling activity of beta-catenin. Two alternately spliced transcripts encoding two protein isoforms have been identified. A processed pseudogene with high similarity to this locus has been mapped to chromosome 12p13. Function: May play a role in junctional plaques. Subunit Structure: Interacts with DSC2. Interacts with JUP and desmoplakin/DSP. Similarity: Belongs to the beta-catenin family.
Other Notes	Small volumes of anti-PKP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PKP2 purchase	MBS9608022 is an antibody targeting PKP2. Also known as PKP2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PKP2 antibody
Western blot analysis of Mouse heart lysate, using PKP2 Antibody. The lane on the left is treated with the antigen-specific peptide.



Immunofluorescene (IF) of anti-PKP2 antibody
MBS9608022 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



Immunohistochemistry (IHC) of anti-PKP2 antibody
MBS9608022 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PKP2. It may not necessarily be applicable to this product.

NCBI GI #	148664186
NCBI GeneID	5318
NCBI Accession #	NP_001005242.2
UniProt Primary Accession #	Q99959
UniProt Secondary Accession #	Q4VC01; Q99960; A0AV37; B8QFA1; B8QGS6; B8QGS7; D3DUW9

UniProt Related Accession #	Q99959
GenBank Nucleotide #	NM_001005242.2
NCBI Official Full Name	plakophilin-2 isoform 2a
NCBI Official Synonym Full Names	plakophilin 2
NCBI Official Symbol	PKP2
NCBI Official Synonym Symbols	ARVD9
UniProt Protein Name	Plakophilin-2
Protein Family	Plakophilin
UniProt Gene Name	PKP2
NCBI Protein Information	plakophilin-2
NCBI Summary for PKP2	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 product may regulate the signaling activity of beta-catenin. Two alternately spliced transcripts encoding two protein isoforms have been identified. A processed pseudogene with high similarity to this locus has been mapped to chromosome 12p13. [provided by RefSeq, Jul 2008]
UniProt Comments for PKP2	May play a role in junctional plaques.
Research Articles on PKP2	**1.** Results identified common and rare variants within plakophilin 2 protein (PKP2) to be associated with left ventricular mass (LVM).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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