

## Rabbit anti-Human, Rat PKP2 Polyclonal Antibody | anti-PKP2 antibody

PKP2 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                 |
|-----------|--------|------------|--------------------------------------------------------------|
| AAA324955 | Rabbit | Human, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

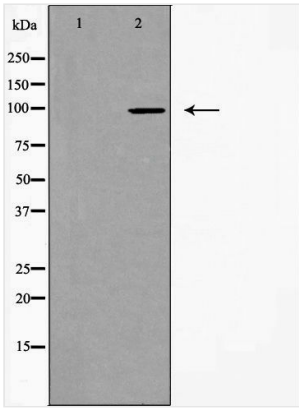
### PRODUCT SYNONYMS

PKP2; Polyclonal Antibody; PKP2 Antibody; ARVD 9; ARVD9; PKP 2; PKP2\_HUMAN; Plakophilin-2; Plakophilin2; anti-PKP2 antibody

### PRODUCT SPECIFICATIONS

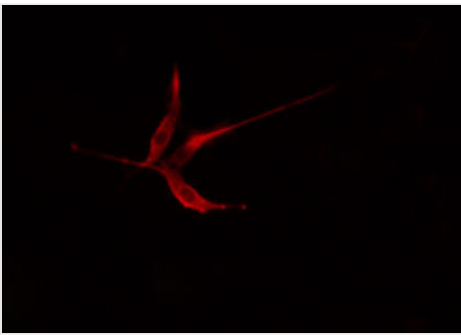
|                                                |                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                                     | Human, Rat                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                           |
| Specificity                                    | PKP2 antibody detects endogenous levels of total PKP2                                                                                                                                                                                                                                                                                         |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                 |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                 |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                        |
| Sequence Length                                | 837                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-PKP2 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                                                                                                                  |
| Immunogen                                      | A synthesized peptide                                                                                                                                                                                                                                                                                                                         |
| 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. |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                                                                                                                                                                                                                                                                 |
| Similarity                                     | Pig (92%), Bovine (92%), Horse (92%), Sheep (83%), Rabbit (100%), Dog (100%)                                                                                                                                                                                                                                                                  |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                             |

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HeLa cells using PKP2 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324955 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.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PKP2 antibody | Function: May play a role in junctional plaques.<br>Subunit Structure: Interacts with DSC2. Interacts with JUP and desmoplakin/DSP.<br>Similarity: Belongs to the beta-catenin family. |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 148664186                                                      |
| NCBI GeneID                      | 5318                                                           |
| NCBI Accession #                 | NP_001005242.2                                                 |
| NCBI GenBank Nucleotide #        | NM_001005242.2                                                 |
| UniProt Accession #              | Q99959; Q4VC01; Q99960; A0AV37; B8QFA1; B8QGS6; B8QGS7; D3DUW9 |
| Molecular Weight                 | Observed: 97 kD<br>Predicted: 98 kDa                           |
| NCBI Official Full Name          | plakophilin-2 isoform 2a                                       |
| NCBI Official Synonym Full Names | plakophilin 2                                                  |
| NCBI Official Symbol             | PKP2                                                           |
| NCBI Official Synonym Symbols    | ARVD9                                                          |
| NCBI Protein Information         | plakophilin-2                                                  |
| UniProt Protein Name             | Plakophilin-2                                                  |
| UniProt Gene Name                | PKP2                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.