

#### **International Office**

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# EB10841 - Goat Anti-Plakophilin 2 (aa125-139) Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

Principal Names: PKP2, plakophilin 2, ARVD9, MGC177501, plakophilin-2

Official Symbol: PKP2

Accession Number(s): NP\_001005242.2; NP\_004563.2

Human GeneID(s): 5318

Non-Human GenelD(s): 67451 (mouse), 287925 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms

(NP\_001005242.2; NP\_004563.2).

## **Immunogen**

Peptide with sequence C-RGTAQYSSQKSVEER, from the internal region of the protein sequence according to NP\_001005242.2; NP\_004563.2.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:16000.

**Western blot:** Approx 100kDa band observed in Mouse Heart lysates (calculated MW of 88.1kDa according to Mouse NP\_080439.1 and 87.8kDa according to Rat

NP\_001093969.1). Recommended concentration: 0.3-1µg/ml. Primary incubation was 1 hour. This antibody has been successfully used in WB on Mouse, PMID: 37833253. **IHC:** Paraffin embedded Human Prostate. Recommended concentration: 3.75µg/ml.

#### **Species Reactivity**

Tested: Human, Mouse

Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow

## **Specific Reference**

## This antibody has been successfully used in Western blot on Mouse:

Nieves García-Quintáns, Silvia Sacristán, Cristina Márquez-López, Cristina Sánchez-Ramos, Fernando Martinez-de-Benito, David Siniscalco, Andrés González-Guerra, Emilio Camafeita, Marta Roche-Molina, Mariya Lytvyn, David Morera, María I. Guillen, María A. Sanguino, David Sanz-Rosa, Daniel Martín-Pérez, Ricardo Garcia & Juan A. Berna

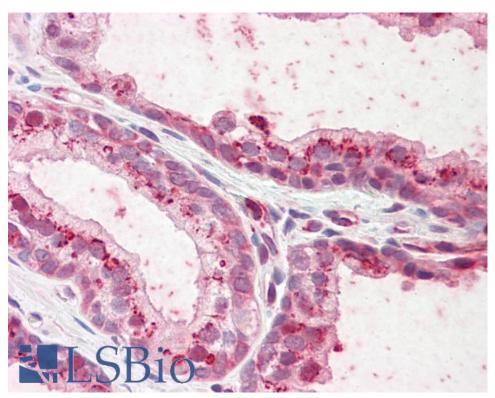
MYH10 activation rescues contractile defects in arrhythmogenic cardiomyopathy (ACM). Nat Commun. 2023 Oct 13;14(1):6461.

PMID: 37833253



15kDa

EB10841 (0.3 $\mu$ g/ml) staining of Mouse Heart lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB10841 (3.75μg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.