

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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 GeneID(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:**

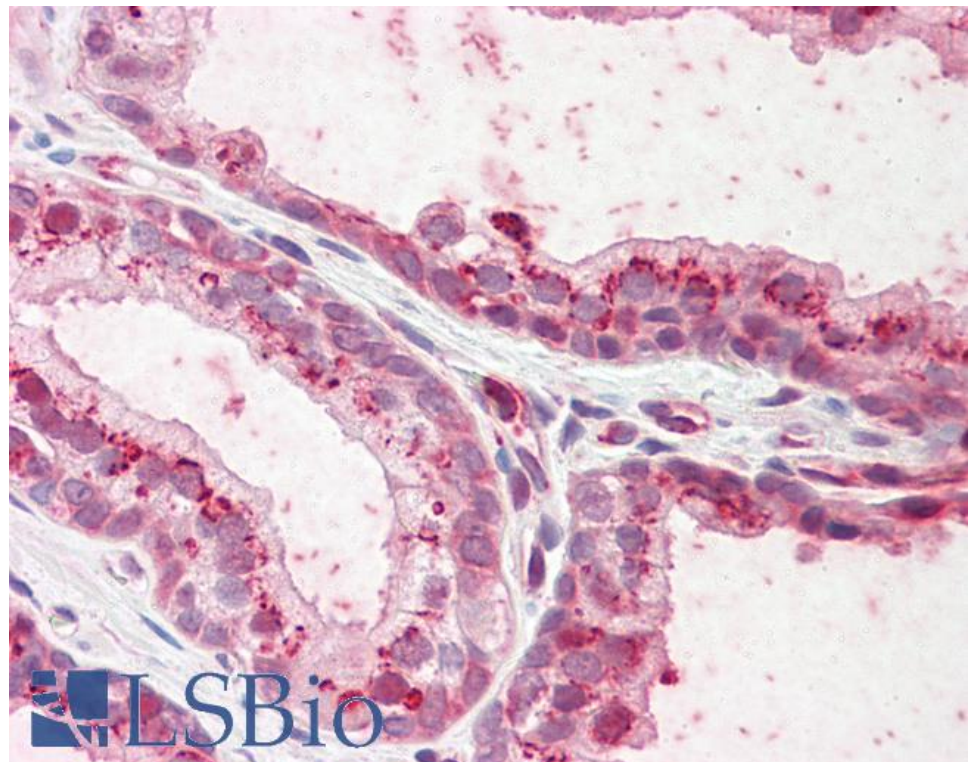
Nieves García-Quintáns, Silvia Sacristán, Cristina Márquez-López, Cristina Sánchez-Ramos, Fernando Martínez-de-Benito, David Siniscalco, Andrés González-Guerra, Emilio Camafeita, Marta Roche-Molina, Mariya Lytvyn, David Morera, María I. Guillen, María A. Sanguino, David Sanz-Rosa, Daniel Martín-Pérez,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

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

PMID: 37833253



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



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