

#### International Office

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# EB11650 - Goat Anti-PCNA Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

**Principal Names:** cyclin, DNA polymerase delta auxiliary protein, MGC8367, OTTHUMP0000030190, PCNA, proliferating cell nuclear antigen, ATLD2

Official Symbol: PCNA

Accession Number(s): NP\_002583.1

Human GeneID(s): 5111

Non-Human GenelD(s): 18538 (mouse), 25737 (rat)

Important Comments: Reported variants represent identical protein: NP\_872590.1,

NP\_002583.1

## Immunogen

Peptide with sequence C-NGNIKLSQTSNVD, from the internal region of the protein sequence according to NP\_002583.1.

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 1:128000.

Western blot: Approx 30kDa band observed in lysates of cell line HeLa (calculated MW of 28.8kDa according to Human NP\_002583.1). Approx.33kDa band observed in lysates of cell line NIH3T3 and in Mouse and Rat Testis and Pig Spleen lysates (calculated MW of 28.8kDa according to Mouse NP\_035175.1, Rat NP\_071776.1 and Pig NP\_001278854.1). Primary incubation was 1 hour. The observed molecular weight corresponds to earlier findings in literature with different antibodies (Gilljam et al, , J Cell Biol. 2009 Sep 7;186(5):645-54.). Recommended concentration: 0.01-0.03µg/ml. IHC: Paraffin embedded Human Testis. Recommended concentration: 5-6µg/ml.

**Additional validation:** This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

## **Species Reactivity**

Tested: Human, Mouse, Rat, Pig

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

### **Specific Reference**

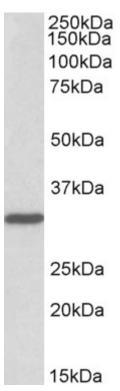
## This antibody has been successfully used in the following paper:

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen

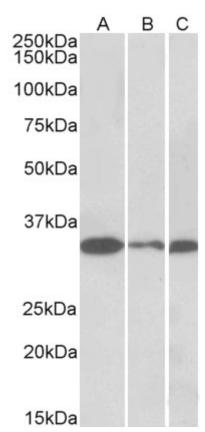
A high-throughput pipeline for validation of antibodies

Nat Methods. 2018 Nov;15(11):909-912

PMID: 30377371



EB11650 (0.01μg/ml) staining of HeLa lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB11650 (0.01μg/ml) staining of NIH3T3 (A), Mouse Testis (B) and Rat Testis (C) lysates (35μg protein in RIPA buffer). Detected by chemiluminescence.

250kDa 150kDa 100kDa 75kDa

50kDa

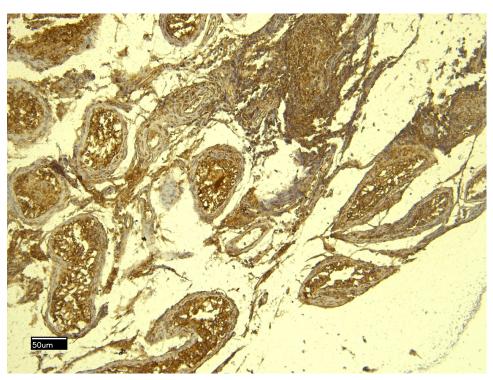
37kDa

25kDa

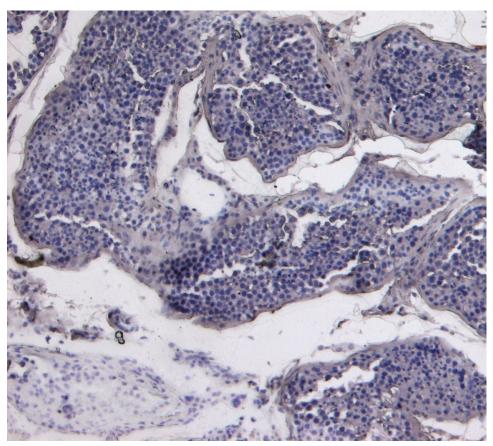
20kDa

15kDa

EB11650 (0.03µg/ml) staining of Pig Spleen lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB11650 (6µg/ml) staining of paraffin embedded Human Testis. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB11650 Negative Control showing staining of paraffin embedded Human Testis, with no primary antibody.