

**KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1061**

**Specification**

**KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">Q15366</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 34-39 kDa , observed, 35,39 kDa
Gene Name	KDa
Aliases	PCBP2 PCBP2; Poly(RC) Binding Protein 2; Poly(RC)-Binding Protein 2; HNRNPE2; HNRPE2; Heterogeneous Nuclear Ribonucleoprotein E2; Heterogenous Nuclear Ribonucleoprotein E2; Alpha-CP2; HnRNP-E2; HnRNP E2; Epididymis Secretory Sperm Binding Protein; HNRNP-E2
Immunogen	A synthesized peptide derived from human PCBP2

**KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	5094
<b>Other Names</b>	
Poly(rC)-binding protein 2, Alpha-CP2, Heterogeneous nuclear ribonucleoprotein E2, hnRNP E2, PCBP2 {ECO:0000303 PubMed:7607214, ECO:0000312 HGNC:HGNC:8648}	

**KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody - Protein Information**

**Name** PCBP2 {ECO:0000303|PubMed:7607214, ECO:0000312|HGNC:HGNC:8648}

**Function**

Single-stranded nucleic acid binding protein that binds preferentially to oligo dC (PubMed:<a href="http://www.uniprot.org/citations/12414943" target="\_blank">12414943</a>, PubMed:<a href="http://www.uniprot.org/citations/7607214" target="\_blank">7607214</a>). Major cellular poly(rC)-binding protein (PubMed:<a href="http://www.uniprot.org/citations/12414943" target="\_blank">12414943</a>). Also binds poly(rU) (PubMed:<a href="http://www.uniprot.org/citations/12414943" target="\_blank">12414943</a>). Acts as a negative regulator of antiviral signaling (PubMed:<a href="http://www.uniprot.org/citations/19881509" target="\_blank">19881509</a>, PubMed:<a href="http://www.uniprot.org/citations/35322803" target="\_blank">35322803</a>). Negatively regulates cellular antiviral responses mediated by MAVS signaling (PubMed:<a href="http://www.uniprot.org/citations/19881509" target="\_blank">19881509</a>). It acts as an

adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/19881509" target="\_blank">19881509</a>). Negativeley regulates the cGAS-STING pathway via interaction with CGAS, preventing the formation of liquid- like droplets in which CGAS is activated (PubMed:<a href="http://www.uniprot.org/citations/35322803" target="\_blank">35322803</a>). Together with PCBP1, required for erythropoiesis, possibly by regulating mRNA splicing (By similarity).

#### Cellular Location

Nucleus. Cytoplasm. Note=Loosely bound in the nucleus (PubMed:7607214). May shuttle between the nucleus and the cytoplasm (PubMed:7607214).

#### Tissue Location

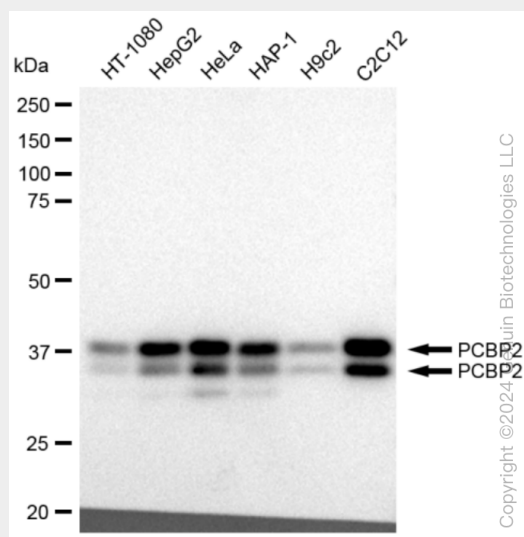
Detected in all tissues examined.

### KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody - Protocols

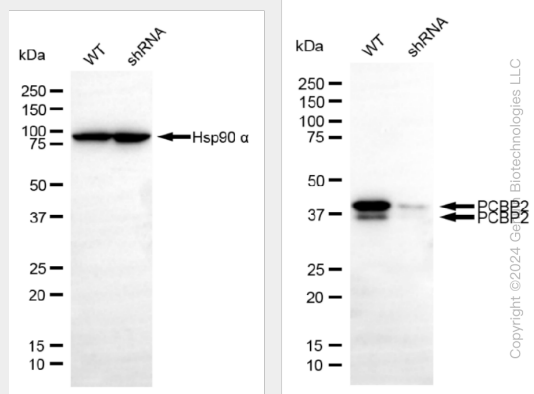
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

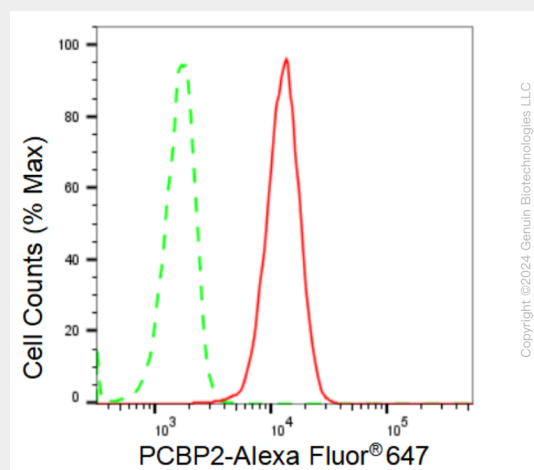
### KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody - Images



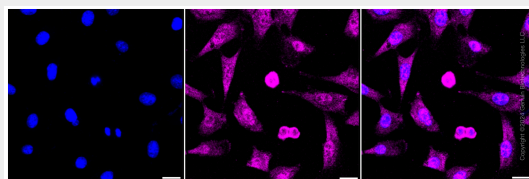
Western blotting analysis using anti-PCBP2 antibody (Cat#AGI1061). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PCBP2 antibody (Cat#AGI1061, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PCBP2 antibody (Cat#AGI1061). PCBP2 expression in wild type (WT) and PCBP2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PCBP2 antibody (Cat#AGI1061, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PCBP2 expression in C2C12 cells using PCBP2 antibody (Cat#AGI1061, 1:2,000). Green, isotype control; red, PCBP2.



Immunocytochemical staining of C2C12 cells with PCBP2 antibody (Cat#AGI1061, 1:1,000). Nuclei were stained blue with DAPI; PCBP2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.