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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	Q15366
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 34-39 kDa , observed, 35,39 kDa KDa**
Gene Name	**PCBP2**
Aliases	**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**

Other Names
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:12414943, PubMed:7607214). Major cellular poly(rC)-binding protein (PubMed:12414943). Also binds poly(rU) (PubMed:12414943). Acts as a negative regulator of antiviral signaling (PubMed:19881509, PubMed:35322803). Negatively regulates cellular antiviral responses mediated by MAVS signaling (PubMed:19881509). It acts as an

adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitination and degradation (PubMed:19881509). Negativeley regulates the cGAS-STING pathway via interaction with CGAS, preventing the formation of liquid- like droplets in which CGAS is activated (PubMed:35322803). 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).

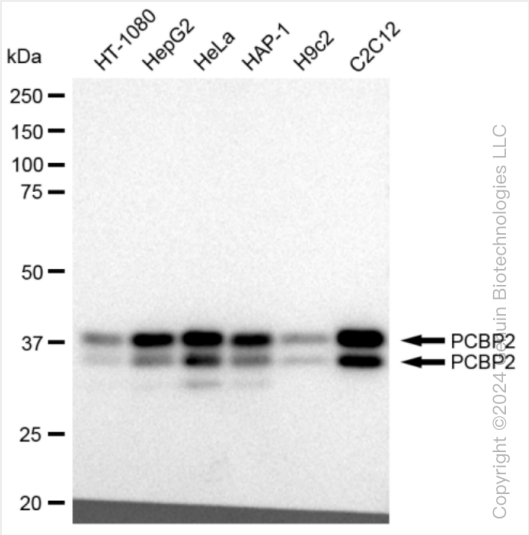
Tissue Location
Detected in all tissues examined.

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 Cytomety
- 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.

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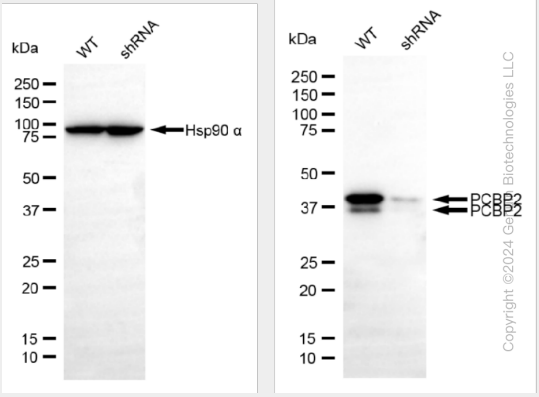
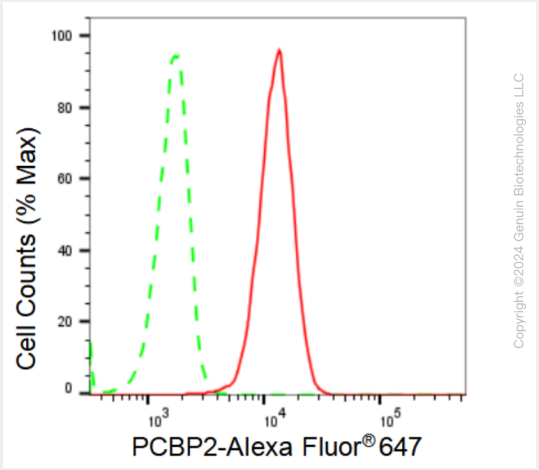
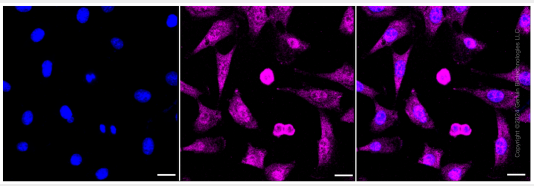


Western blotting analysis using anti-PCBP2 antibody (Cat#AGI1061). PCBP2 expression in wild type (WT) and PCBP2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PCBP2 antibody (Cat#AGI1061, 1:5,000) and HRP-conjugated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