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KD-Validated Anti-PCBP2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1061

Product Information

Application	WB, FC, ICC
Primary Accession	Q15366
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2110
Calculated MW	38580
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

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}

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.

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