

PCBP2 Antibody

Rabbit mAb Catalog # AP93024

Specification

PCBP2 Antibody - Product Information

Application	WB, ICC, IP
Primary Accession	<u>Q15366</u>
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Alpha CP2; Cbp; CTBP; hnRNP E2; Hnrnpx; HNRPE2; Hnrpx; PCBP2;	

lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	38580 Da

PCBP2 Antibody - Additional Information

Dilution	WB~~1:1000
	ICC~~N/A
	IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PCBP2
Description	Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. Major cellular poly(rC)-binding protein. Binds also poly(rU). Negatively regulates cellular antiviral responses mediated by MAVS signaling. It acts as an adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

PCBP2 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:<a href="http://www.uniprot.org/citations/12414943"



target="_blank">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:<a href="http://www.uniprot.org/citations/19881509"

target="_blank">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.

PCBP2 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- PCBP2 Antibody Images



Western blot analysis of PCBP2 expression in HeLa cell lysate.