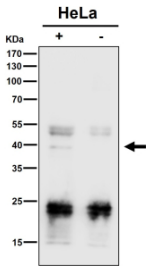
# PCBP2 Antibody / Poly(rC)-binding protein 2 [clone 30P20] (FY12121)

| Catalog No. | Formulation | Size |
|---|---|---|
| FY12121 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA | 100 ul |

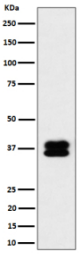
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

| | |
|---|---|
| **Availability** | 2-3 weeks |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Liquid |
| **Host** | Rabbit |
| **Clonality** | Recombinant Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | 30P20 |
| **Purity** | Affinity-chromatography |
| **Buffer** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **UniProt** | Q15366 |
| **Applications** | Western blot: 1:500-1:2000<br>Immunocytochemistry/Immunofluorescence: 1:50-1:200<br>Immunoprecipitation: 1:50 |
| **Limitations** | This PCBP2 antibody is available for research use only. |




Immunoprecipitate (IP) analysis using the antibody at 1:50 dilution. (Western blot at 1:1K dilution)




Western blot analysis of PCBP2 expression in HeLa cell lysate.

## Description

PCBP2 antibody detects poly(rC)-binding protein 2, an RNA-binding protein that regulates mRNA stability, translation, and alternative splicing. PCBP2 belongs to the heterogeneous nuclear ribonucleoprotein K-homology domain family and binds poly(C)-rich RNA sequences, influencing post-transcriptional control of numerous transcripts. PCBP2 is widely expressed and has essential functions in iron metabolism, viral replication, and gene expression regulation.

Research using PCBP2 antibody has revealed the protein's multifunctional nature. In iron homeostasis, PCBP2 acts as a cytosolic iron chaperone, delivering iron to ferritin for storage and supporting enzymatic cofactors. Its role in viral biology is equally significant: PCBP2 has been shown to bind viral RNA, regulating replication of poliovirus, hepatitis C virus, and enteroviruses. In addition, PCBP2 can function as a negative regulator of antiviral signaling, making it an attractive target in infection research.

In cancer, PCBP2 expression is frequently dysregulated. Overexpression can promote tumorigenesis by stabilizing oncogenic transcripts and influencing signaling pathways. Conversely, loss of PCBP2 disrupts iron metabolism and RNA processing, contributing to genomic instability. Its widespread regulatory functions make it relevant for studies across oncology, virology, and metabolism.

Antibodies against PCBP2 are validated for western blot, immunoprecipitation, immunofluorescence, and immunohistochemistry. These tools allow researchers to examine PCBP2's role in RNA binding, protein interactions, and cellular localization. Clone-based antibodies ensure reliable specificity when distinguishing PCBP2 from other PCBP family members.

NSJ Bioreagents offers this PCBP2 antibody for research in RNA biology, viral replication, and cancer.

## Application Notes

Optimal dilution of the PCBP2 antibody should be determined by the researcher.

## Immunogen

A synthesized peptide derived from human PCBP2 was used as the immunogen for the PCBP2 antibody.

## Storage

Store the PCBP2 antibody at -20oC.

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