# Recombinant PCBP2 Monoclonal Antibody

**catalog number:** **E-AB-81594**

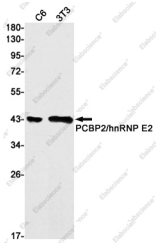
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Mouse;Rat |
| **Immunogen** | A synthetic peptide of human PCBP2 |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C433380 |
| **Purification** | Affinity Purified |
| **Buffer** | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:500-1:1000 |

## Data




Western blot detection of PCBP2/hnRNP E2 in C6,3T3 cell lysates using PCBP2/hnRNP E2 Rabbit mAb(1:1000 diluted).Predicted band size:39kDa.Observed band size: 35-45kDa.

**Observed-MW:35 /45 kDa**

**Calculated-MW:39 kDa**

## Preparation & Storage

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|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |

## Background


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The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting poliovirus RNA replication by binding to its 5′-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. The encoded protein is also suggested to play a part in formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes ( PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. Thsi gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene.


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