

**PCBP1 rabbit pAb****Cat#: orb771939 (Manual)**

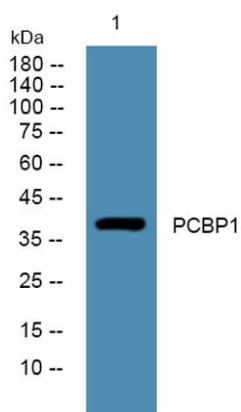
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|                                 |                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>             | PCBP1 rabbit pAb                                                                                                                     |
| <b>Host species</b>             | Rabbit                                                                                                                               |
| <b>Applications</b>             | WB;ELISA                                                                                                                             |
| <b>Species Cross-Reactivity</b> | Human;Mouse                                                                                                                          |
| <b>Recommended dilutions</b>    | WB 1:500-2000 ELISA 1:5000-20000                                                                                                     |
| <b>Immunogen</b>                | Synthesized peptide derived from human protein . at AA range: 30-110                                                                 |
| <b>Specificity</b>              | PCBP1 Polyclonal Antibody detects endogenous levels of protein.                                                                      |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide..                                                                      |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.                                                                                   |
| <b>Protein Name</b>             | Poly(rC)-binding protein 1 (Alpha-CP1) (Heterogeneous nuclear ribonucleoprotein E1) (hnRNP E1) (Nucleic acid-binding protein SUB2.3) |
| <b>Gene Name</b>                | PCBP1                                                                                                                                |
| <b>Cellular localization</b>    | Nucleus. Cytoplasm. Loosely bound in the nucleus. May shuttle between the nucleus and the cytoplasm.                                 |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                |
| <b>Clonality</b>                | Polyclonal                                                                                                                           |

|                                |         |
|--------------------------------|---------|
| <b>Concentration</b>           | 1 mg/ml |
| <b>Observed band</b>           | 39kD    |
| <b>Human Gene ID</b>           | 5093    |
| <b>Human Swiss-Prot Number</b> | Q15365  |
| <b>Alternative Names</b>       |         |

## Background

This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNPk corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote 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. Th



**Western blot analysis of lysates from PC12 cells, primary antibody was diluted at 1:1000, 4° over night**