

## ARG40796 anti-PCBP2 / hnRNP E2 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes PCBP2 / hnRNP E2   |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | ICC/IF, IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | PCBP2 / hnRNP E2   |
| Species             | Human  |
| Immunogen           | Recombinant fusion protein corresponding to aa. 1-130 of Human PCBP2 (NP_001122383.1).                                 |
| Conjugation         | Un-conjugated  |
| Alternate Names     | HNRPE2; HNRNPE2; hnRNP-E2; Poly(rC)-binding protein 2; Alpha-CP2; Heterogeneous nuclear ribonucleoprotein E2; hnRNP E2 |

### Application Instructions

| Application table | Application  | Dilution       |
|-------------------|--|----------------|
|                   | ICC/IF   | 1:50 - 1:200   |
|                   | IHC-P  | 1:50 - 1:200   |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | Mouse spleen   |                |
| Observed Size     | 38 kDa   |                |

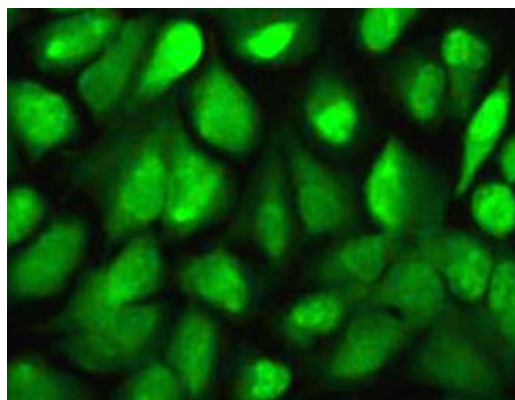
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

## Bioinformation

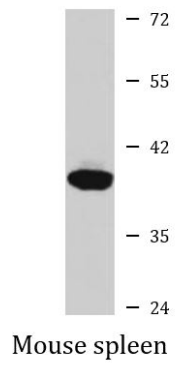
|                       |  |
|-----------------------|--|
| Gene Symbol           | PCBP2  |
| Gene Full Name        | poly(rC) binding protein 2   |
| Background            | The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular 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. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| Function              | 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 ubiquitination and degradation. [UniProt]   |
| Calculated Mw         | 39 kDa   |
| PTM                   | Phosphorylated. The non-phosphorylated form(s) exhibited the strongest poly(rC)-binding activity.<br><br>(Microbial infection) Proteolytically cleaved by picornavirus proteinase 3CD. [UniProt]   |
| Cellular Localization | Nucleus. Cytoplasm. Note=Loosely bound in the nucleus. May shuttle between the nucleus and the cytoplasm. [UniProt]  |

## Images



ARG40796 anti-PCBP2 / hnRNP E2 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG40796 anti-PCBP2 / hnRNP E2 antibody.



ARG40796 anti-PCBP2 / hnRNP E2 antibody WB image

Western blot: 25 µg of Mouse spleen lysate stained with ARG40796 anti-PCBP2 / hnRNP E2 antibody at 1:1000 dilution.