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

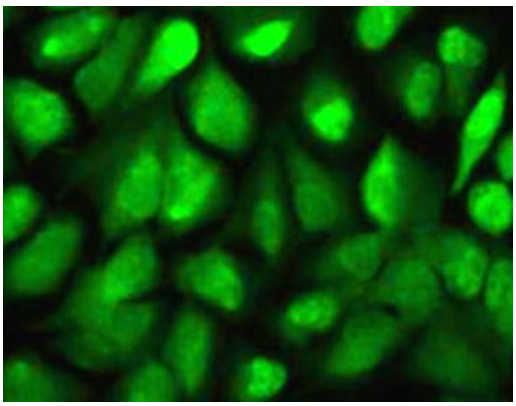
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

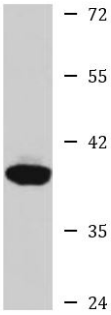
Gene Symbol	PCBP2
Gene Full Name	poly(rC) binding protein 2
Background	The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved 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. Thsi 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 ubiquitinationa and degradation. [UniProt]
Calculated Mw	39 kDa
PTM	Phosphorylated. The non-phosphorylated form(s) exhibited the strongest poly(rC)-binding activity. (Microbial infection) Proteolyticaly 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.



Mouse spleen

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.