
Product Name: KD-Validated PCBP2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01763**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 38.6kDa

Antigen Information

Gene Name	PCBP2
Alternative Names	PCBP2; Poly(RC) Binding Protein 2; Poly(RC)-Binding Protein 2; HNRNPE2; HNRPE2; Heterogeneous Nuclear Ribonucleoprotein E2; Heterogenous Nuclear Ribonucleoprotein E2; Alpha-CP2; HnRNP-E2; HnRNP E2; Epididymis Secretory Sperm Binding Protein; HNRNP-E2
Gene ID	5094.0
SwissProt ID	Q15366
Immunogen	A synthesized peptide derived from human PCBP2

Background

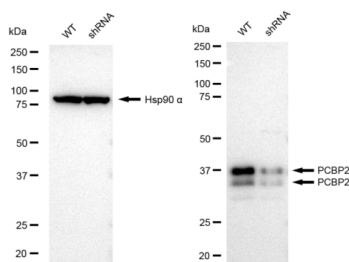
The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular

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, Jan 2018]

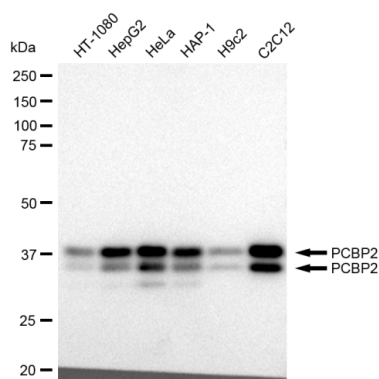
Research Area

Microbiology

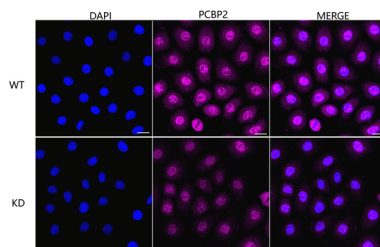
Image Data



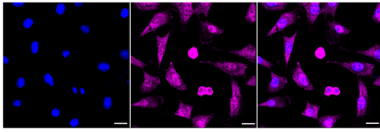
Western blotting analysis using PCBP2 antibody (KVA01763). PCBP2 expression in wild type (WT) and PCBP2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PCBP2 antibody (KVA01763, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



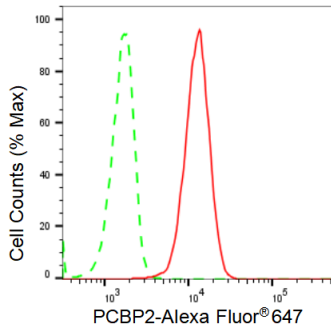
Western blotting analysis using PCBP2 antibody (KVA01763). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PCBP2 antibody (KVA01763, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using PCBP2 antibody (KVA01763, 1:1,000), Top panel: wild-type (WT); Bottom panel: PCBP2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; PCBP2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with PCBP2 antibody (KVA01763, 1:1,000). Nuclei were stained blue with DAPI; PCBP2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of PCBP2 expression in C2C12 cells using PCBP2 antibody (KVA01763, 1:2,000). Green, isotype control; red, PCBP2.