

Product Datasheet

PCBP2 Antibody (5F12) - Azide and BSA Free H00005094-M07

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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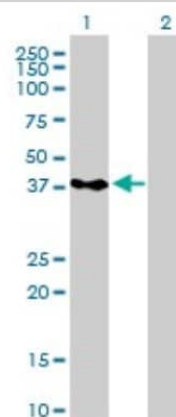
H00005094-M07

PCBP2 Antibody (5F12) - Azide and BSA Free

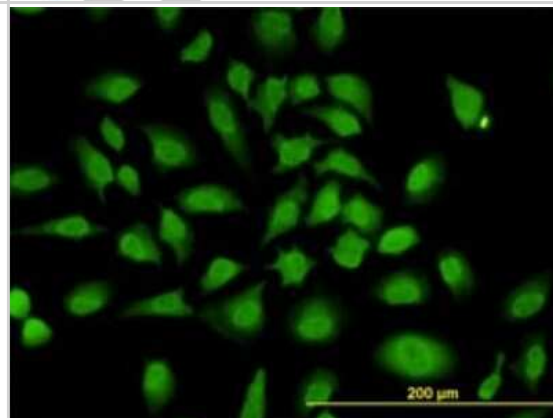
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5F12
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	5094
Gene Symbol	PCBP2
Species	Human, Rat
Reactivity Notes	Rat reactivity reported from customer review.
Specificity/Sensitivity	PCBP2 - poly(rC) binding protein 2
Immunogen	PCBP2 (AAH01155, 1 a.a. ~ 362 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCP ERIIITLAGPTNAIFKAFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSL IGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAGIPQSIIECVKQICVVMLE SPPKGV TIPYRPKPSSSPVIFAGGQDRYSTGSDSASFHTTTPSMCLNPDLEGP PLEAYTIQGQYAIPQPDCLKLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGY WAGLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIRQMSGAQIKIANPVEGSTDR QVTITGSAASISLAQYLINVRLSSETGGMGSS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10-1:500, Knockdown Validated
Application Notes	Antibody reactivity against recominant protein and cell lysate for WB.

Images

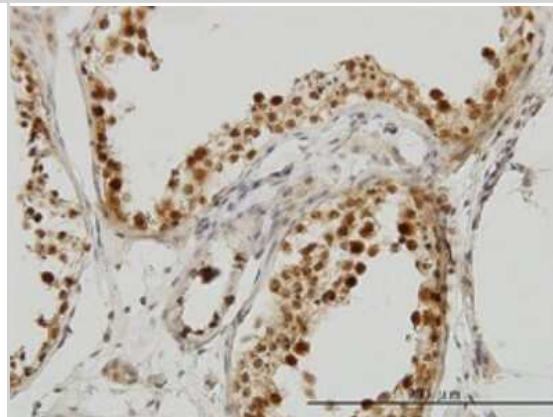
Western Blot: PCBP2 Antibody (5F12) [H00005094-M07] - Analysis of PCBP2 expression in transfected 293T cell line by PCBP2 monoclonal antibody (M07), clone 5F12. Lane 1: PCBP2 transfected lysate (38.7 KDa). Lane 2: Non-transfected lysate.



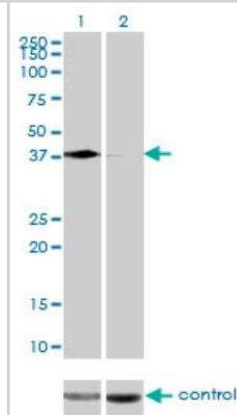
Immunocytochemistry/Immunofluorescence: PCBP2 Antibody (5F12) [H00005094-M07] - Analysis of monoclonal antibody to PCBP2 on HeLa cell. Antibody concentration 10 ug/ml



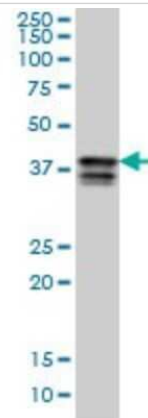
Immunohistochemistry-Paraffin: PCBP2 Antibody (5F12) [H00005094-M07] - Analysis of monoclonal antibody to PCBP2 on formalin-fixed paraffin-embedded human testis. Antibody concentration 3 ug/ml



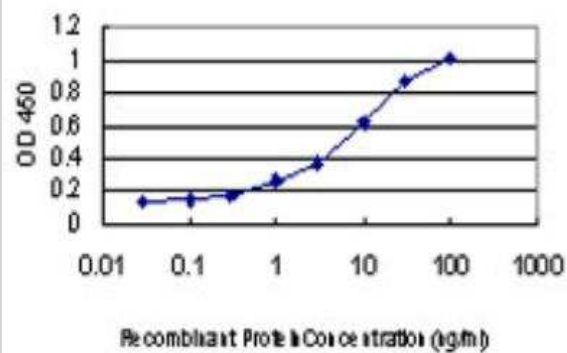
Western Blot: PCBP2 Antibody (5F12) [H00005094-M07] - Western blot analysis of PCBP2 over-expressed 293 cell line, cotransfected with PCBP2 Validated Chimera RNAi or non-transfected control. Blot probed with H00005094-M07. GAPDH (36.1 kDa) used as loading control.



Western Blot: PCBP2 Antibody (5F12) [H00005094-M07] - Analysis of PCBP2 expression in K-562 (Cat # L009V1).



ELISA: PCBP2 Antibody (5F12) [H00005094-M07] - Detection limit for recombinant GST tagged PCBP2 is approximately 0.1 ng/ml as a capture antibody.



Publications

Yanatori I, Richardson DR, Toyokuni S, Kishi F. The Iron Chaperone Poly (rC)-binding Protein 2 Forms a Metabolon with the Heme Oxygenase 1/Cytochrome P450 Reductase Complex for Heme Catabolism and Iron Transfer. *J. Biol. Chem.* 2017-06-27 [PMID: 28655775]

Davidson YS, Robinson AC, Flood L et al. Heterogeneous ribonuclear protein E2 (hnRNP E2) is associated with TDP-43-immunoreactive neurites in Semantic Dementia but not with other TDP-43 pathological subtypes of Frontotemporal Lobar Degeneration. *Acta Neuropathologica Communications* 2017-12-01 [PMID: 28666471] (Immunohistochemistry, Western Blot)

Bradley G, Charles W, Younghee K et al. Iron Toxicity in the Retina Requires Alu RNA and the NLRP3 Inflammasome. *Cell Rep.* 2015-06-11 [PMID: 26074074]

Hiroyuki H, Motoi Y, Hajime A et al. Mutated FUS in familial amyotrophic lateral sclerosis involves multiple hnRNPs in the formation of neuronal cytoplasmic inclusions. *J Neuropathol Exp Neurol.* 2023-01-02 [PMID: 36592411]

Motoi Y, Hiroyuki H, Naokazu S et al. PCBP2 Is Downregulated in Degenerating Neurons and Rarely Observed in TDP-43-Positive Inclusions in Sporadic Amyotrophic Lateral Sclerosis. *J Neuropathol Exp Neurol.* 2020-12-14 [PMID: 33313661]

Roth H, Magg V, Uch F et al. Flavivirus Infection Uncouples Translation Suppression from Cellular Stress Responses. *MBio* 2017-01-10 [PMID: 28074025]

Li F, Bullough KZ, Vashisht AA et al. Poly(rC)-Binding Protein 2 Regulates Hippo Signaling To Control Growth in Breast Epithelial Cells. *Mol Cell Biol* 2016-05-23 [PMID: 27215387]

Yanatori I, Richardson DR, Imada K, Kishi F. Iron Export through the Transporter Ferroportin 1 Is Modulated by the Iron Chaperone PCBP2. *J Biol Chem* 2016-08-12 [PMID: 27302059]

Fujimura K, Katahira J, Kano F et al. Selective localization of PCBP2 to cytoplasmic processing bodies. *Biochim Biophys Acta.* 2009-02-18 [PMID: 19230839]

Wang L, Jeng KS, Lai MM. Poly(C)-binding protein 2 Interacts with sequences Required for Viral Replication in HCV 5' UTR and Directs HCV RNA Replication through Circularizing the Viral Genome. *J Virol.* 2011-06-01 [PMID: 21632751]

Fujimura K, Sasaki AT, Anderson P. Selenite targets eIF4E-binding protein-1 to inhibit translation initiation and induce the assembly of non-canonical stress granules. *Nucleic Acids Res.* 2012-06-20 [PMID: 22718973]

Li Y, Masaki T, Shimakami T, Lemon SM. hnRNP L and NF90 interact with hepatitis C virus 5' terminal untranslated RNA and promote efficient replication. *J Virol.* 2014-04-09 [PMID: 24719423]

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00005094-P01-10ug	Recombinant Human PCBP2 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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