

Product datasheet for **AM20926PU-N**

PCBP2 Mouse Monoclonal Antibody [Clone ID: 5F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5F12
Applications:	ELISA, IF, IHC, RNAi, WB
Recommended Dilution:	ELISA. Immunofluorescence: 10 µg/ml. Immunohistochemistry on Paraffin Sections: 5 µg/ml. RNAi. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant protein, PCBP2 (AAH01155, 1 a.a. ~ 363 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Specificity:	This antibody reacts to Poly(rC) Binding Protein 2 (PCBP2).
Formulation:	PBS, pH 7.2 State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	poly(rC) binding protein 2
Database Link:	Entrez Gene 5094 Human Q15366



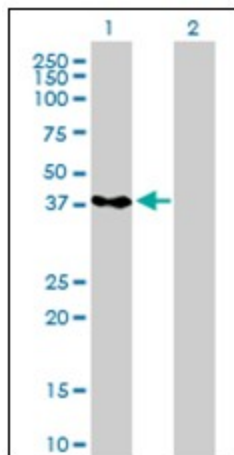
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Background:

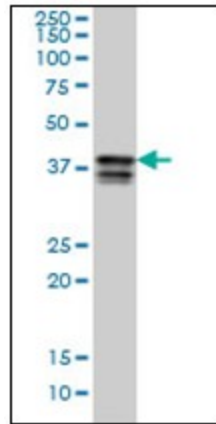
The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions 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.

Synonyms:

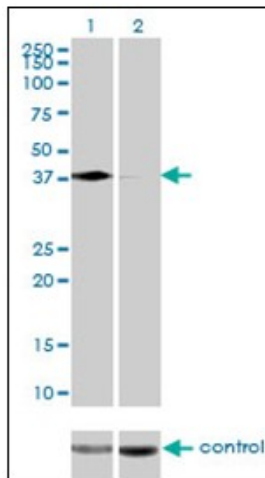
Poly(rC)-binding protein 2, Alpha-CP2

Product images:

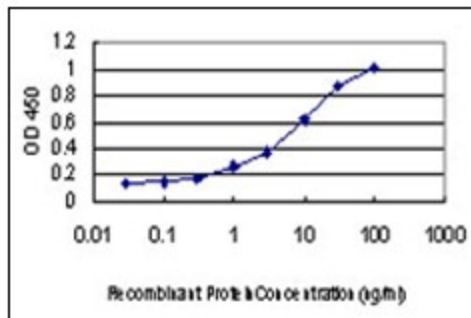
Western Blot analysis of PCBP2 expression in transfected 293T cell line by PCBP2 monoclonal antibody clone 5F12.



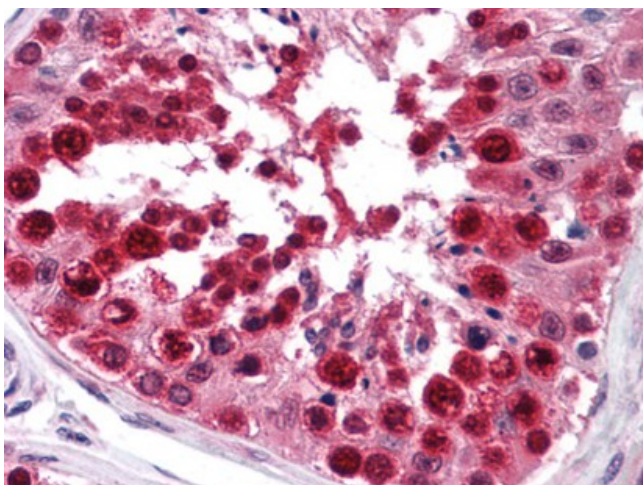
PCBP2 monoclonal antibody clone 5F12 Western Blot analysis of PCBP2 expression in K-562.



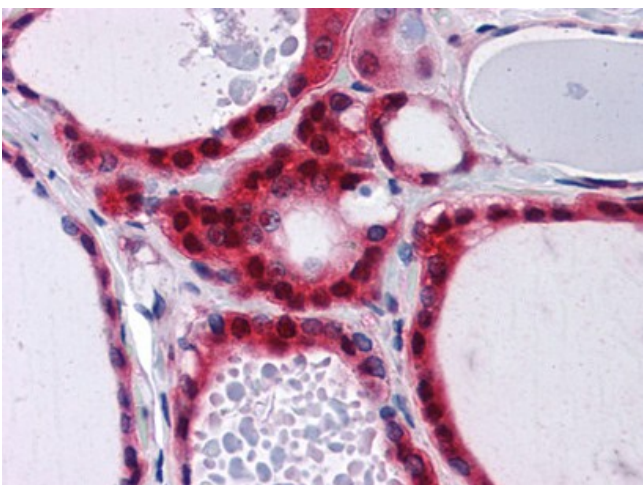
Western blot analysis of PCBP2 over-expressed 293 cell line, cotransfected with PCBP2 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with PCBP2 monoclonal antibody clone 5F12.



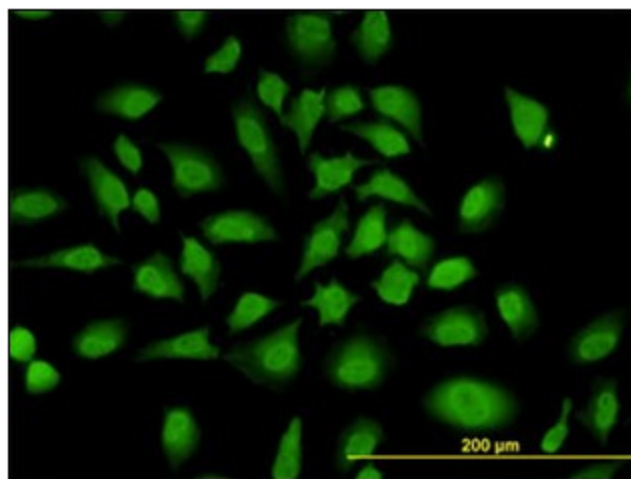
Detection limit for recombinant GST tagged PCBP2 is approximately 0.1 ng/ml as a capture antibody.



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Thyroid: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to PCBP2 on HeLa cell (antibody concentration 10 ug/ml).