



Anti-PCBP1 (aa 181-280) polyclonal antibody (DPAB-DC2106)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNPK corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote 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.
Immunogen	PCBP1 (AAH39742, 181 a.a. ~ 280 a.a) partial recombinant protein with GST tag. The sequence is IPYQPMPASSPVICAGGQDRCSDAAGYPHATHDLEGPPLDAYSIQGQHTISPLDLAKLNQ VARQQSHFAMMHGGTGFAGIDSSSPEVKGYWASLDASTQT
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PCBP1 poly(rC) binding protein 1 [Homo sapiens (human)]
Official Symbol	PCBP1
Synonyms	PCBP1; poly(rC) binding protein 1; HNRPX; HNRPE1; hnRNP-X; HEL-S-85; hnRNP-E1; poly(rC)-binding protein 1; alpha-CP1; epididymis secretory protein Li 85; nucleic acid-binding protein SUB2.3; heterogenous nuclear ribonucleoprotein X; heterogenous nuclear ribonucleoprotein E1; heterogeneous nuclear ribonucleoprotein E1;
Entrez Gene ID	5093
Protein Refseq	NP_006187
UniProt ID	Q15365
Chromosome Location	2p13-p12
Pathway	Gene Expression; Spliceosome; mRNA Splicing;
Function	RNA binding; poly(A) RNA binding; protein binding; single-stranded DNA binding
