

Human PCBP2 Knockdown Cell Lysate

Cat. No. PCBP2-264HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated PCBP2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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.
Form	Cell-Tissue Lysis buffer

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Molecular Mass	34-39 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PCBP2 KD HeLa cell lysate
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	PCBP2 poly(rC) binding protein 2 [Homo sapiens (human)]
Official Symbol	PCBP2
Synonyms	PCBP2; poly(rC) binding protein 2; poly(rC)-binding protein 2; heterogenous nuclear ribonucleoprotein E2; hnRNP E2; HNRPE2; alpha-CP2; heterogeneous nuclear ribonucleoprotein E2; hnRNP-E2; MGC110998;
Gene ID	5094
mRNA Refseq	NM_001098620

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Protein Refseq	NP_001092090
MIM	601210
UniProt ID	Q15366

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