

PCBP2 Antibody

Catalog No: #32696

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Description

Product Name	PCBP2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total PCBP2 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PCBP2.
Target Name	PCBP2
Other Names	HNRPE2; MGC110998; hnRNP-E2;
Accession No.	Swiss-Prot:Q15366NCBI Gene ID:5094
SDS-PAGE MW	39KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

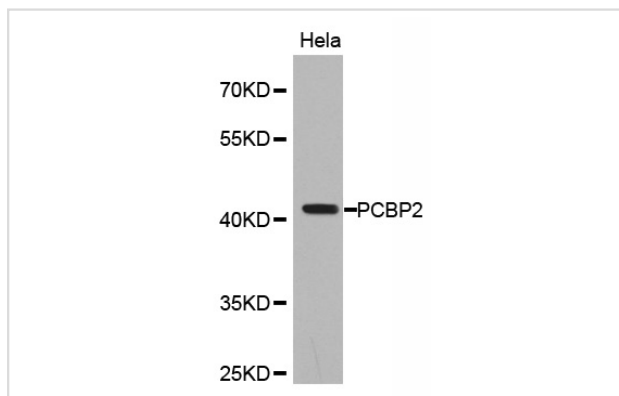
Application Details

Western blotting: 1:500 - 1:2000

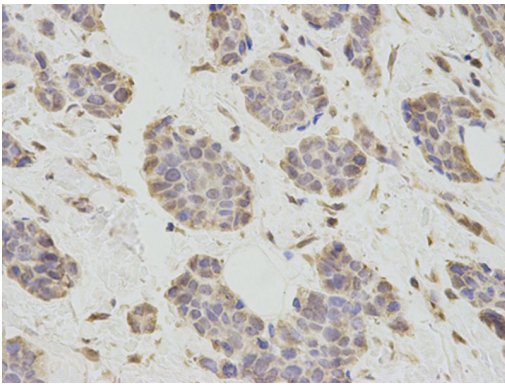
Immunohistochemistry: 1:50 - 1:200

Immunofluorescence: 1:50 - 1:200

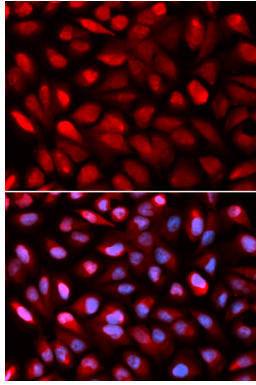
Images



Western blot analysis of extracts of HeLa cell line, using PCBP2 antibody.



Immunohistochemical analysis of paraffin-embedded human breast cancer using PCBP2 antibody at dilution of 1:200 (400x lens).



Immunofluorescence analysis of U2OS cell using PCBP2 antibody. Blue: DAPI for nuclear staining.

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.