

## ARG45409 anti-PCBP1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PCBP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PCBP1
Species	Human
Immunogen	Recombinant protein containing to human PCBP1.
Conjugation	Un-conjugated
Alternate Names	HNRPX; HNRPE1; hnRNP-X; HEL-S-85; hnRNP-E1; Poly(rC)-binding protein 1; Alpha-CP1; Heterogeneous nuclear ribonucleoprotein E1; hnRNP E1; Nucleic acid-binding protein SUB2.3

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	40 kDa	

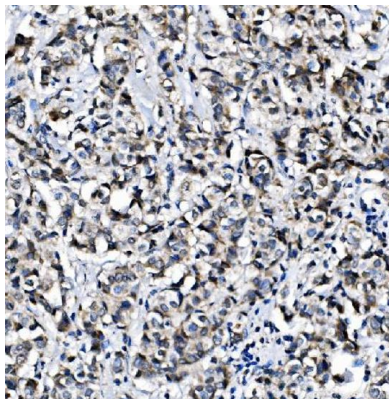
### Properties

Form	Powder
Purification	Affinity purified
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.005% Sodium azide and 4% Trehalose.
Preservative	0.005% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

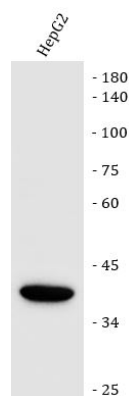
Gene Symbol	PCBP1
Gene Full Name	poly(rC) binding protein 1
Background	This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events 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. [provided by RefSeq, Jul 2008]
Function	Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. [UniProt]
Calculated Mw	37 kDa
PTM	Phosphorylated; lowers poly(rC)-binding activity. [UniProt]
Cellular Localization	Nucleus. Cytoplasm. [UniProt]

## Images



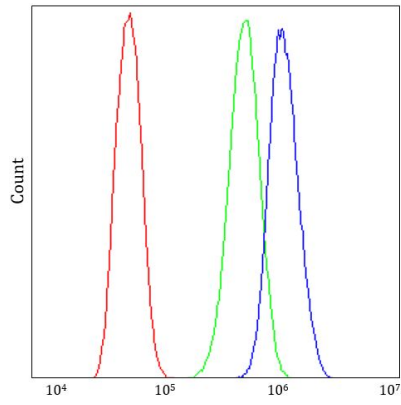
ARG45409 anti-PCBP1 antibody IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG45409 anti-PCBP1 antibody at 2 µg/ml dilution.



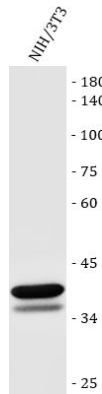
ARG45409 anti-PCBP1 antibody WB image

Western blot: HepG2 stained with ARG45409 anti-PCBP1 antibody at 0.5 µg/ml dilution.



#### ARG45409 anti-PCBP1 antibody FACS image

Flow Cytometry: CACO-2 stained with ARG45409 anti-PCBP1 antibody at 1 µg/10<sup>6</sup> cells dilution.



#### ARG45409 anti-PCBP1 antibody WB image

Western blot: NIH/3T3 stained with ARG45409 anti-PCBP1 antibody at 0.5 µg/ml dilution.