

For Research Use Only

CIRBP Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 88400-2-PBS



Basic Information

Catalog Number: 88400-2-PBS	GenBank Accession Number: BC000403	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1153	CloneNo.: 260943F5
Source: Rabbit	UNIPROT ID: Q14011	
Isotype: IgG	Full Name: cold inducible RNA binding protein	
Immunogen Catalog Number: AG0280	Calculated MW: 172 aa, 19 kDa	
	Observed MW: 19 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse

Product Information

88400-2-PBS targets CIRBP as part of a matched antibody pair:

MP03512-1: 88400-3-PBS capture and 88400-2-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

CIRBP, also named as A18HNRNP and CIRP, is a cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival[PMID: 19158277]. CIRBP is also involved in cap-independent translation upon moderate cold-shock. It acts as a translational activator. CIRBP is a suppressive rather stimulatory effect on proliferation[PMID: 19777567]. CIRBP can translocate from nucleus to cytoplasm under stresses such as UV irradiation or heat shock. Suppression of CIRBP increased the apoptotic cell population of neural stem cells at moderate low temperature[PMID: 20735994]. This antibody (Catalog# 10209-2-AP) is a rabbit polyclonal antibody raised against the full-length CIRBP of human origin.

Storage

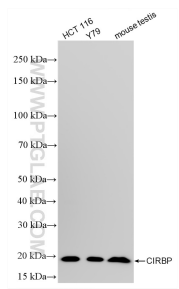
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

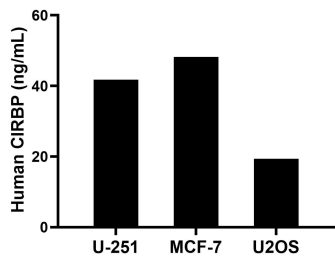
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

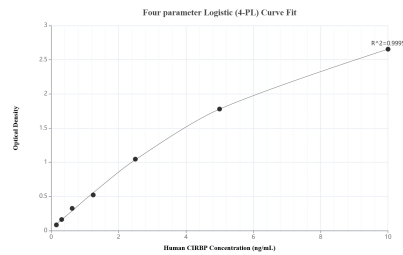
Selected Validation Data



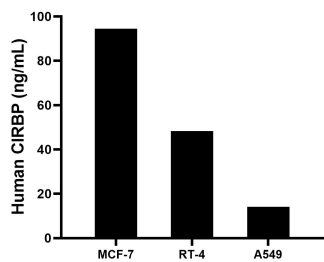
Various lysates were subjected to SDS PAGE followed by western blot with 88400-2-RR (CIRBP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88400-2-PBS in a different storage buffer formulation.



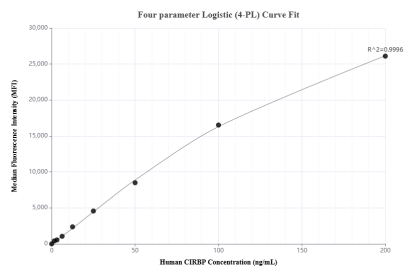
The mean CIRBP concentration was determined to be 41.78 ng/mL in U-251 cell extract based on a 1.20 mg/mL extract load, 48.22 ng/mL in MCF-7 cell extract based on a 1.50 mg/mL extract load and 19.36 ng/mL in U2OS cell extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP03512-1, Human CIRBP Recombinant Matched Antibody Pair - PBS only. 88400-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag0280. 88400-2-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL.



The mean CIRBP concentration was determined to be 94.4 ng/mL in MCF-7 cell extract based on a 1.2 mg/mL extract load, 48.3 ng/mL in RT-4 cell extract based on a 1.2 mg/mL extract load, 14.2 ng/mL in A549 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03512-1, CIRBP Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88400-3-PBS. Detection antibody: 88400-2-PBS. Standard: Ag0280. Range: 1.562-200 ng/mL.