

For Research Use Only

DDX46 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85065-3-PBS



Basic Information

Catalog Number: 85065-3-PBS	GenBank Accession Number: BC012304	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 9879	CloneNo.: 242715E10
Source: Rabbit	UNIPROT ID: Q7L014	
Isotype: IgG	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	
Immunogen Catalog Number: AG10342	Calculated MW: 1031 aa, 117 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Product Information

85065-3-PBS targets DDX46 as part of a matched antibody pair:

MP01807-1: 85065-3-PBS capture and 85065-1-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

MP01807-2: 85065-3-PBS capture and 85065-2-PBS detection (validated in Cytometric bead array)

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

DDX46, also named as KIAA0801, is a 1031 amino acid protein, which belongs to the DEAD box helicase family. DDX46 has been shown to be required at the early step of pre-spliceosome assembly. It uses the energy released by the hydrolysis of ATP to rearrange local RNA-RNA or protein-RNA interactions. The nuclear DDX46 acted as a negative regulator of the antiviral innate response by recruiting the m6A 'eraser' ALKBH5 to induce retention of antiviral innate mRNA in the nucleus.

Storage

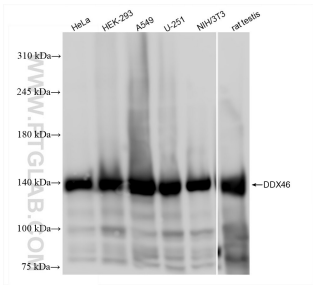
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

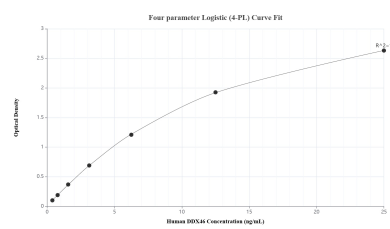
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

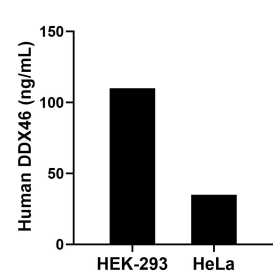
Selected Validation Data



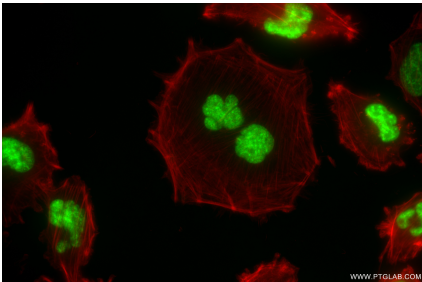
Various lysates were subjected to SDS PAGE followed by western blot with 85065-3-RR (DDX46 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85065-3-PBS in a different storage buffer formulation.



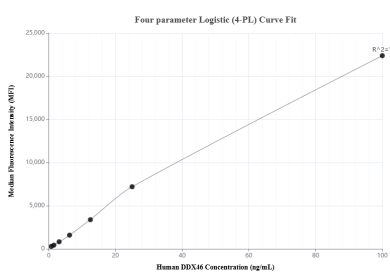
Sandwich ELISA standard curve of MP01807-1, Human DDX46 Recombinant Matched Antibody Pair - PBS only. 85065-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag10342. 85065-1-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL



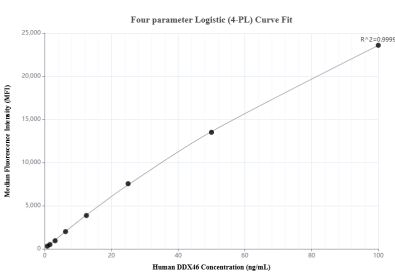
The mean DDX46 concentration was determined to be 109.98 ng/mL in HEK-293 cell extract based on a 2.70 mg/mL extract load and 35.02 ng/mL in HeLa cell extract based on a 1.50 mg/mL extract load.



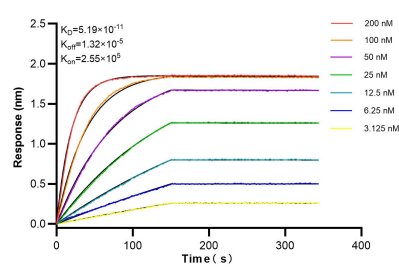
Immunofluorescent analysis of (4% PFA) fixed U-251 cells using DDX46 antibody (85065-3-RR, Clone: 242715E10) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 85065-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01807-2, DDX46 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85065-3-PBS. Detection antibody: 85065-2-PBS. Standard: Ag10342. Range: 0.781-100 ng/mL



Cytometric bead array standard curve of MP01807-1, DDX46 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85065-3-PBS. Detection antibody: 85065-1-PBS. Standard: Ag10342. Range: 0.781-100 ng/mL



Biolayer interferometry (BLI) kinetic assays of 85065-3-RR against Human DDX46 were performed. The affinity constant is 51.9 pM.