

For Research Use Only

NDUFS3 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:86676-1-PBS



Basic Information

Catalog Number: 86676-1-PBS	GenBank Accession Number: BC000617	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4722	CloneNo.: 251654E6
Source: Rabbit	UNIPROT ID: O75489	
Isotype: IgG	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	
Immunogen Catalog Number: AG7072	Calculated MW: 30 kDa	
	Observed MW: 30 kDa	

Applications

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

Species Specificity:
human, mouse, rat

Product Information

86676-1-PBS targets NDUFS3 as part of a matched antibody pair:

MP02593-1: 86676-2-PBS capture and 86676-1-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

NDUFS3(NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial) is also named as CI-30kD and belongs to the complex I 30 kDa subunit family. It catalyzes the oxidation of NADH, with the concomitant reduction of ubiquinone and ejection of protons out of the mitochondria(PMID:10967146). NDUFS3 can be used as a mitochondrial matrix control(PMID:17344420).

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

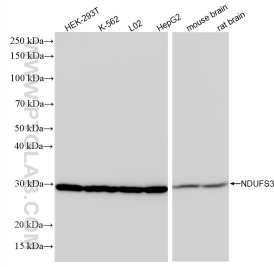
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

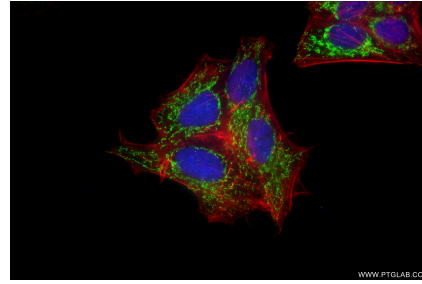
E: proteintech@ptglab.com
W: ptglab.com

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

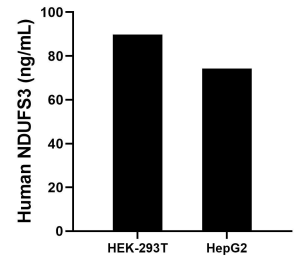
Selected Validation Data



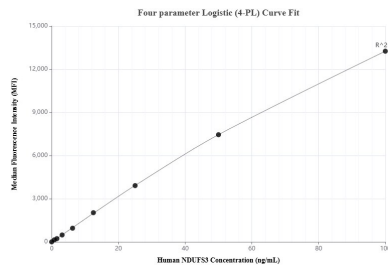
Various lysates were subjected to SDS PAGE followed by western blot with 86676-1-RR (NDUFS3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86676-1-PBS in a different storage buffer formulation.



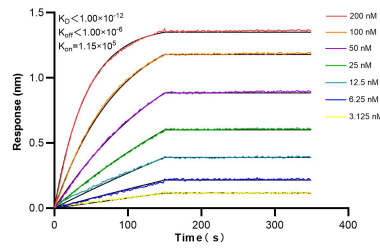
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NDUFS3 antibody (86676-1-RR, Clone: 251654E6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86676-1-PBS in a different storage buffer formulation.



The mean NDUFS3 concentration was determined to be 89.8 ng/mL in HEK-293T cell extract based on a 1.3 mg/mL extract load, 74.3 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP02593-1, NDUFS3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86676-2-PBS. Detection antibody: 86676-1-PBS. Standard: Ag7072. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86676-1-RR against Human NDUFS3 were performed. The affinity constant is below 1 pM.