

For Research Use Only

PRDX6 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86368-1-PBS



Basic Information

Catalog Number:	86368-1-PBS	GenBank Accession Number:	BC035857	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	9588	CloneNo.:	251053E8
Source:	Rabbit	UNIPROT ID:	P30041		
Isotype:	IgG	Full Name:	peroxiredoxin 6		
Immunogen Catalog Number:	AG4512	Calculated MW:	224 aa, 25 kDa		
		Observed MW:	25-28 kDa		

Applications

Tested Applications:

WB, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:

human, mouse, rat

Product Information

86368-1-PBS targets PRDX6 as part of a matched antibody pair:

MPO2551-1: 86368-1-PBS capture and 86368-3-PBS detection (validated in 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

PRDX6 (Peroxiredoxin-6), also named as AOP2 or KIAA0106, is a unique member of the peroxiredoxin family of antioxidants. PRDX6 is highly expressed in liver and protects cells from oxidative damage by reducing H₂O₂ and various lipid Peroxides (PMID: 17382207). It can form a dimer (PMID: 20500660). PRDX6 is expressed in all major organs, with a particularly high level in lung (PMID: 15890616). Prdx6 is detected at approximately 24 to 28 kDa, and can be monosumoylated with the molecular mass of about 40 kDa (PMID: 24910119).

Storage

Storage:

Store at -80°C.

Storage Buffer:

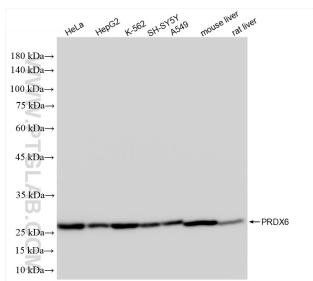
PBS only, pH7.3

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)

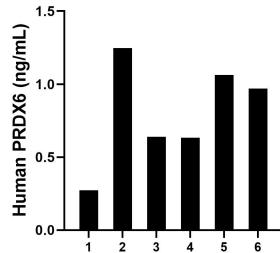
E: proteintech@ptglab.com
W: ptglab.com

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

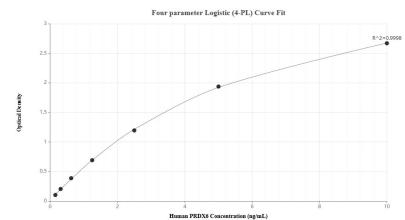
Selected Validation Data



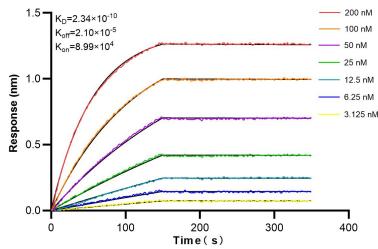
Various lysates were subjected to SDS PAGE followed by western blot with 86368-1-RR (PRDX6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86368-1-PBS in a different storage buffer formulation.



Plasma of six individual healthy human donors was measured. The human PRDX6 concentration of detected samples was determined to be 0.80 ng/mL with a range of 0.27 - 1.25 ng/mL.



Sandwich ELISA standard curve of MP02551-1, Human PRDX6 Recombinant Matched Antibody Pair - PBS only. 86368-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag4512. 86368-3-PBS was HRP conjugated as the detection antibody. Range: 0.156 - 10 ng/mL



Biolayer interferometry (BLI) kinetic assays of 86368-1-RR against Human PRDX6 were performed. The affinity constant is 0.234 nM.