

For Research Use Only

CYBRD1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86245-1-PBS



Basic Information

Catalog Number: 86245-1-PBS	GenBank Accession Number: BC065290	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 79901	CloneNo.: 250771A6
Isotype: IgG	UNIPROT ID: Q53TN4	
Immunogen Catalog Number: AG24968	Full Name: cytochrome b reductase 1	
	Observed MW: 25-31 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

CYBRD1, also known as Cytochrome b Reductase 1, is a gene encoding a key enzyme involved in iron metabolism. It functions primarily in duodenal enterocytes, where it reduces dietary ferric iron (Fe^{3+}) to the more soluble ferrous form (Fe^{2+}) at the brush border membrane. This reduction step is crucial for the subsequent uptake of iron into the body via the divalent metal transporter 1 (DMT1). CYBRD1's activity is therefore essential for maintaining systemic iron homeostasis, and its expression is regulated by body iron stores and hypoxia. Dysregulation of this gene has been implicated in disorders of iron overload, such as hereditary hemochromatosis, highlighting its significant role in human iron physiology.

Storage

Storage:
Store at $-80^{\circ}C$.
The product is shipped with ice packs. Upon receipt, store it immediately at $-80^{\circ}C$

Storage Buffer:
PBS only, pH7.3

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

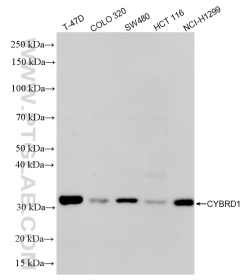
T: 4006900926

E: Proteintech-CN@ptglab.com

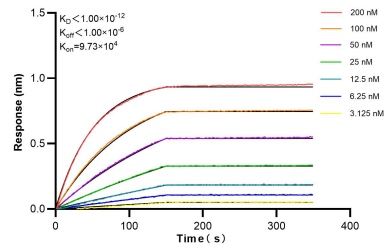
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86245-1-RR (CYBRD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86245-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86245-1-RR against Human CYBRD1 were performed. The affinity constant is below 1 pM.