

For Research Use Only

SLC30A1 Recombinant antibody

Catalog Number: 82895-2-RR



Basic Information

Catalog Number: 82895-2-RR	GenBank Accession Number: BC121015	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 7779	CloneNo.: 230152E10
Source: Rabbit	UNIPROT ID: Q9Y6M5	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: solute carrier family 30 (zinc transporter), member 1	
Immunogen Catalog Number: AG18567	Calculated MW: 507 aa, 55 kDa	
	Observed MW: 63-75 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : SW480 cells, HeLa cells, HepG2 cells
Species Specificity: human	

Background Information

Zinc transporter 1 (ZNT1), also known as SLC30A1, is the only zinc transporter predominantly located on the plasma membrane, where it plays a pivotal role exporting cytosolic zinc to the extracellular space. SLC30A1 expression is posttranslationally regulated by cellular zinc status and can be N-glycosylated on Asn299 in the extracellular loop between transmembrane domains (PMID: 15451416, 18936201). Western analysis detected a higher band at ~63 kDa than the expected molecular mass, which could be attributed to the properties of the cytosolic histidine-rich loop (PMID: 31471319).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

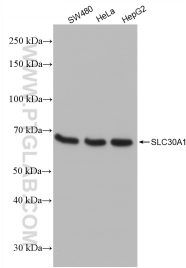
T: 4006900926

E: Proteintech-CN@ptglab.com

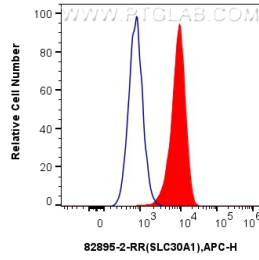
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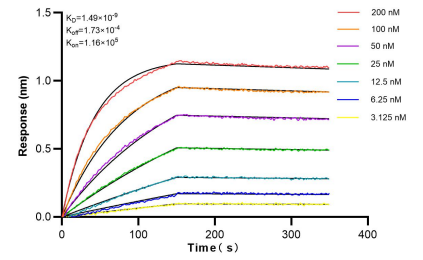
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82895-2-RR (SLC30A1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1×10^6 U2OS cells were intracellularly stained with 0.25 μ g SLC30A1 Recombinant antibody (82895-2-RR, Clone:230152E10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82895-2-RR against Human SLC30A1 were performed. The affinity constant is 1.49 nM.