

For Research Use Only

ATP2B1 Recombinant antibody, PBS Only (Capture)

Catalog Number:83827-3-PBS



Basic Information

Catalog Number: 83827-3-PBS	GenBank Accession Number: NM_001001323.1	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 490	CloneNo.: 240848D10
Source: Rabbit	UNIPROT ID: P20020	
Isotype: IgG	Full Name: ATPase, Ca ⁺⁺ transporting, plasma membrane 1	
Immunogen Catalog Number: AG32423	Calculated MW: 135 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Background Information

ATPase plasma membrane Ca²⁺ transporting 1 (ATP2B1, also known as plasma membrane Ca²⁺ pump isoform 1; PMCA1) belongs to the family of ATP-driven calmodulin-dependent Ca²⁺ pumps that participate in the regulation of intracellular free Ca²⁺ (PMID:35358416). The ATP2B1 contents of extracellular vesicles are increased in prostate cancer treated with enzalutamide and are negatively regulated by androgen receptors (PMID:29105980). ATP2B1 plays an important role in the prognosis of cholangiocarcinoma. Furthermore, ATP2B1 plays an important role in the prognosis of cholangiocarcinoma and can be a prognostic factor for cholangiocarcinoma (PMID:35875160).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

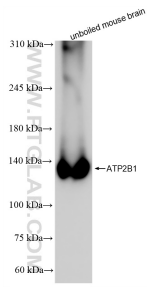
T: 4006900926

E: Proteintech-CN@ptglab.com

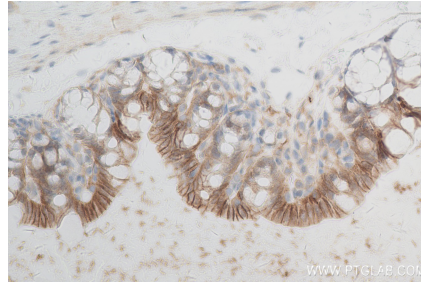
W: ptgcn.com

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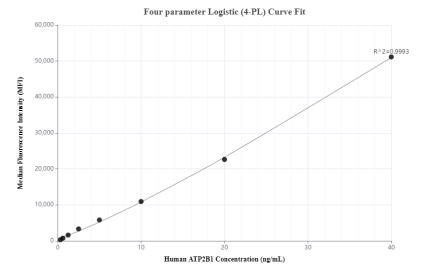
Selected Validation Data



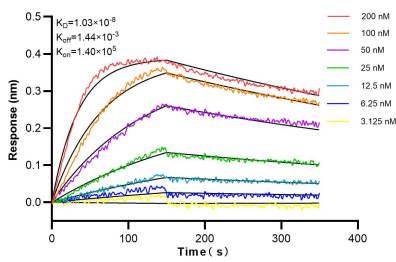
unboiled mouse brain tissue were subjected to SDS PAGE followed by western blot with 83827-3-RR (ATP2B1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83827-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 83827-3-RR (ATP2B1 antibody) at dilution of 1:0 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83827-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00808-1, ATP2B1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83827-3-PBS. Detection antibody: 83827-2-PBS. Standard: Ag32423. Range: 0.313-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83827-3-RR against Human ATP2B1 were performed. The affinity constant is 10.3 nM.