

For Research Use Only

Band 3/AE 1 Recombinant antibody, PBS Only

Catalog Number:81066-1-PBS



Basic Information

Catalog Number: 81066-1-PBS	GenBank Accession Number: BC101570	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6521	CloneNo.: 3K21
Source: Rabbit	UNIPROT ID: P02730	
Isotype: IgG	Full Name: solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	
Immunogen Catalog Number: AG27878	Calculated MW: 911 aa, 102 kDa	

Applications

Tested Applications:
IHC, IF-P, Indirect ELISA

Species Specificity:
human

Background Information

Anion exchanger 1 (AE1), also known as band 3, is a 95-100 kDa transmembrane glycoprotein which is abundantly expressed in erythrocyte plasma membrane and mediates the electroneutral exchange of Cl⁻ and HCO₃⁻. It contains a 52-55 kDa C-terminal membrane crossing domain and a 43 kDa N-terminal cytoplasmic domain. Degradation of band 3 protein occurred during erythrocyte aging. The oxidative stress can also activate the proteolysis of band 3 through caspases.

Storage

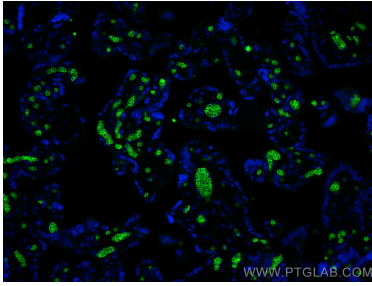
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

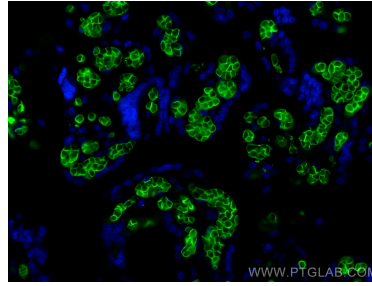
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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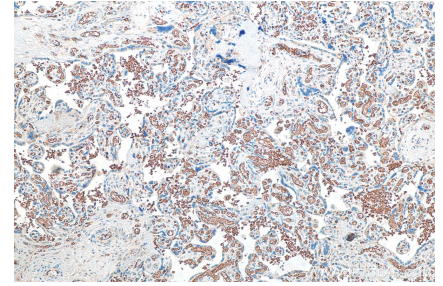
Selected Validation Data



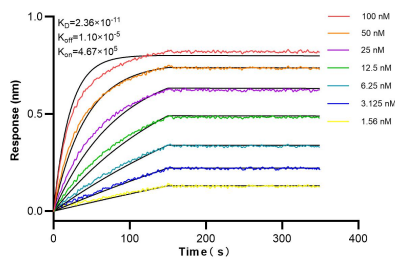
Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using Band 3/ AE1 antibody (81066-1-RR, Clone: 3K21) at dilution of 1:1600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81066-1-PBS in a different storage buffer formulation.



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Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 81066-1-RR (SLC4A1 antibody) at dilution of 1:1700 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81066-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81066-1-RR against Human Band 3/AE 1 were performed. The affinity constant is 23.6 pM.