

Band 3 / AE1 Recombinant antibody

Catalog Number: 81066-1-RR

Basic Information

Catalog Number: 81066-1-RR	GenBank Accession Number: BC101570	Purification Method: Protein A purification
Size: 800 µg/ml	GeneID (NCBI): 6521	CloneNo.: 3K21
Source: Rabbit	UNIPROT ID: P02730	Recommended Dilutions: IHC 1:1000-1:4000 IF 1:800-1:3200
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: IF-P, IHC, ELISA	Positive Controls: IHC : human placenta tissue, IF : human placenta tissue,
Species Specificity: Human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

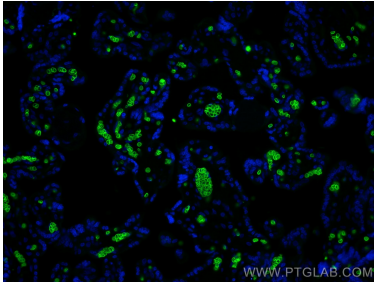
Background Information

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.

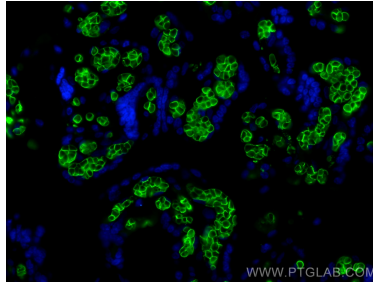
Storage

Storage:
Store at -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

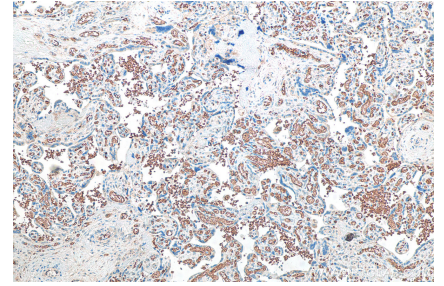
Selected Validation Data



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).



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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).