

For Research Use Only

Band 3/AE 1 Monoclonal antibody, PBS Only



Catalog Number: 66984-1-PBS

Basic Information

Catalog Number: 66984-1-PBS	GenBank Accession Number: BC101570	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6521	CloneNo.: 1E5C1
Source: Mouse	UNIPROT ID: P02730	
Isotype: IgG1	Full Name: solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	
Immunogen Catalog Number: AG28058	Calculated MW: 911 aa, 102 kDa	

Applications

Tested Applications:
Indirect ELISA, IF-P, IHC

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. This antibody is expected to recognize the intact band 3 (95-100 kDa) and various degradation products (38-60 kDa). (PMID: 22890269, 29240292, 28130418)

Storage

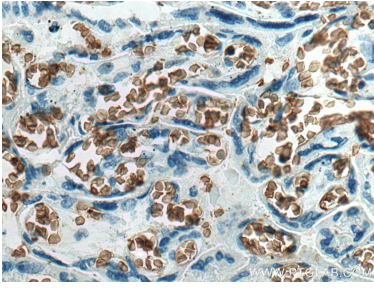
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

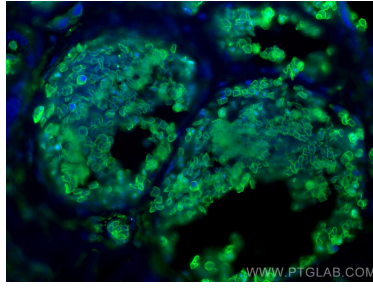
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66984-1-Ig (band 3/ AE1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66984-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using band 3/ AE1 antibody (66984-1-Ig, Clone: 1E5C1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66984-1-PBS in a different storage buffer formulation.