For Research Use Only

Band 3/AE 1 Monoclonal antibody

Catalog Number:66984-1-lg 1 Publications

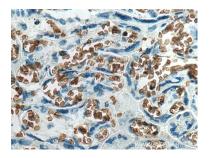


Basic Information	Catalog Number: 66984-1-lg	GenBank Accession Number BC 101570	: Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	1000 µg/ml	6521	1E5C1	
	Source: Mouse	UNIPROT ID: P02730	Recommended Dilutions: IHC 1:5000-1:20000	
	lsotype: lgG1	Full Name: solute carrier family 4, anio	IF-P 1:200-1:800	
	Immunogen Catalog Number: AG28058	exchanger, member 1 (eryth membrane protein band 3, [blood group)	nember 1 (erythrocyte protein band 3, Diego	
		Calculated MW: 911 aa, 102 kDa		
Applications	Tested Applications: IHC, IF-P, ELISA	Positive Controls:		
	Cited Applications:	IHC	IHC : human placenta tissue,	
	IHC	IF-P : human placenta tissue,		
	Species Specificity: human			
	Cited Species: mouse			
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Altern retrieval may be performe buffer pH 6.0	atively, antigen		
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)			
Notable Publications	Author	Pubmed ID Journal	Application	
	Yuan Xie	39191260 Neuron	IHC	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.1% sodium azide and Aliquoting is unnecessary for -20	50% glycerol pH 7.3.		

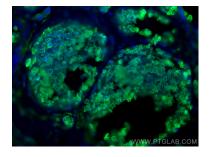
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 66984-1-1g (band 3/ AE1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Goat Anti-Mouse IgG(H+L).