

For Research Use Only

Band 3/AE 1 Monoclonal antibody, PBS Only



Catalog Number: 66984-1-PBS

Basic Information

Catalog Number:

66984-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28058

GenBank Accession Number:

BC101570

GeneID (NCBI):

6521

UNIPROT ID:

P02730

Full Name:

solute carrier family 4, anion
exchanger, member 1 (erythrocyte
membrane protein band 3, Diego
blood group)

Calculated MW:

911 aa, 102 kDa

Purification Method:

Protein A purification

CloneNo.:

1E5C1

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 HCO_3^- . 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 .

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:

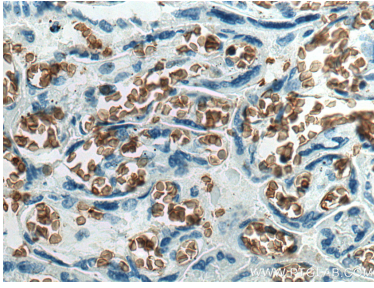
T: 4006900926

E: Proteintech-CN@ptglab.com

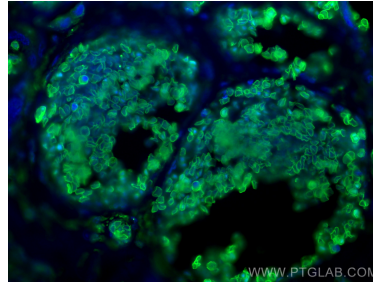
W: ptgcn.com

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Selected Validation Data



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.