

For Research Use Only

# Band 3/AE 1 Recombinant antibody, PBS Only



Catalog Number: 81066-1-PBS

## Basic Information

Catalog Number:

81066-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27878

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.:

3K21

## 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<sup>-</sup> and HCO<sub>3</sub><sup>-</sup>. 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.

**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:

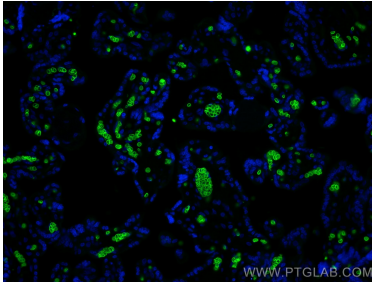
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

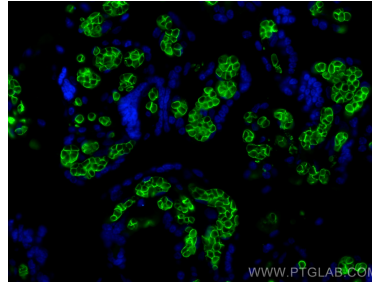
W: [ptgcn.com](http://ptgcn.com)

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

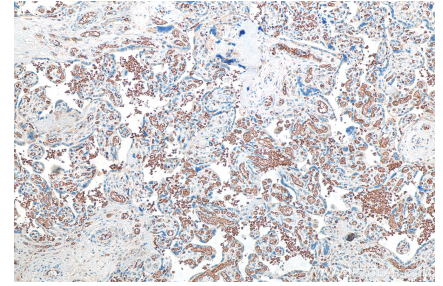
## Selected Validation Data



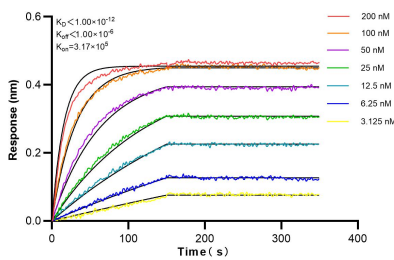
Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using Band 3/ AE1 antibody (81066-1-RR, Clone: 3K21) at dilution of 1:1600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81066-1-PBS in a different storage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



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.



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 below 1 pM.