For Research Use Only

Band 3/AE 1 Recombinant antibody

Rabbit

Catalog Number:81066-1-RR



Purification Method:

IF-P 1:800-1:3200

Basic Information

Catalog Number: GenBank Accession Number: BC101570

81066-1-RR Protein A purification GeneID (NCBI): CloneNo.:

100ul, Concentration: 800 ug/ml by 6521 3K21 Nanodrop: **UNIPROT ID:** Recommended Dilutions: P02730 IHC 1:1000-1:4000

Full Name: Isotype: solute carrier family 4, anion exchanger, member 1 (erythrocyte IgG

membrane protein band 3, Diego Immunogen Catalog Number: blood group)

AG27878 Calculated MW: 911 aa, 102 kDa

Applications

Tested Applications:

IHC, IF-P, ELISA IHC: human placenta tissue. Species Specificity: IF-P: human placenta tissue,

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 CI- 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.

Positive Controls:

Storage

Storage:

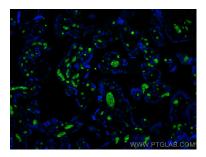
Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

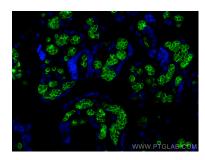
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

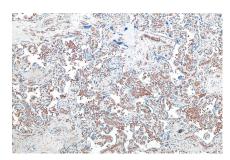
Selected Validation Data



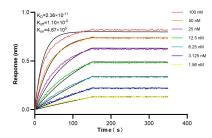
Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using Band 3/ AE1 antibody (81066-1-RR, Clone: 3K21) at dilution of 1:1600 and CoraLite®488-Conjugated Affini Pure Goat Anti-Rabbit IgG(H+L).



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Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 81066-1-RR (SLC 4A1 antibody) at dilution of 1:1700 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 81066-1-RR against Human Band 3/AE 1 were performed. The affinity constant is 23.6 pM.