For Research Use Only

## CoraLite®594-conjugated Band 3/AE proteintech 1 Monoclonal antibody

www.ptglab.com

Catalog Number: CL594-66984

**Basic Information** 

Catalog Number: CL594-66984

Size: 1000 µg/ml Source: Mouse Isotype:

Immunogen Catalog Number:

AG28058

lgG1

exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)

> Calculated MW: 911 aa, 102 kDa

GenBank Accession Number:

solute carrier family 4, anion

BC101570

GeneID (NCBI):

**UNIPROT ID:** 

P02730

Full Name:

**Purification Method:** 

Protein G purification CloneNo.:

1E5C1 Recommended Dilutions:

IF-P 1:50-1:500

588 nm / 604 nm

Excitation/Emission maxima wavelengths:

**Applications** 

**Tested Applications:** IF-P

Species Specificity:

Positive Controls:

IF-P: human placenta tissue,

## **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

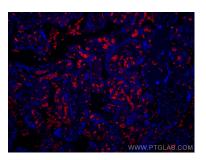
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CoraLite®594 band 3/ AE1 antibody (CL594-66984, Clone: 1E5C1) at dilution of 1:200.