

For Research Use Only

# CoraLite® Plus 488-conjugated band 3/ AE1 Monoclonal antibody



Catalog Number:CL488-66984

## Basic Information

<b>Catalog Number:</b> CL488-66984	<b>GenBank Accession Number:</b> BC101570	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6521	<b>CloneNo.:</b> 1E5C1
<b>Source:</b> Mouse	<b>Full Name:</b> solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 911 aa, 102 kDa	
<b>Immunogen Catalog Number:</b> AG28058		

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : human placenta tissue,
<b>Species Specificity:</b> 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. 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

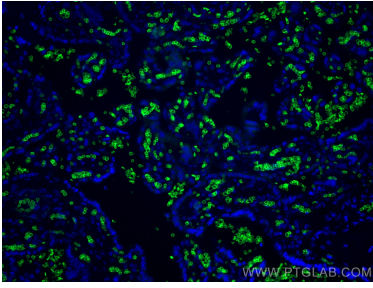
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.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 CoraLite® Plus 488 band 3/ AE1 antibody (CL488-66984, Clone: 1E5C1) at dilution of 1:200.