

## Allgemeine Informationen

**Katalog-Nr.:**  
18566-1-AP

**Größe:**  
150ul , Konzentration: 400 µg/ml von  
Nanodrop und 300 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

**Wirt:**  
Kaninchen

**Isotyp:**  
IgG

**Immunogen Katalognummer:**  
AG13076

**GenBank-Zugangsnummer:**  
BC101570

**GeneID (NCBI):**  
6521

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

**Berechnete Masse:**  
911 aa, 102 kDa

**Beobachtete Masse:**  
95 kDa, 50 kDa

**Reinigungsmethode:**

Antigen-Affinitätsreinigung

**Empfohlene Verdünnungen:**

WB 1:200-1:1000  
IP 0.5-4.0 µg für IP und 1:200-1:1000  
für WB  
IHC 1:20-1:200  
IF 1:50-1:500

## Anwendungen

**Geprüfte Anwendungen:**

IF, IHC, IP, WB, ELISA

**In Publikationen genannte Anwendungen:**

IF, IHC, WB

**Getestete Reaktivität:**

Human, Maus, Ratte

**Zitierte Arten:**

Human, Maus, Ratte, Plasmodium Falciparum

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

**Positivkontrollen:**

**WB:** HepG2-Zellen,

**IP:** Mauselebergewebe,

**IHC:** humanes Milzgewebe, humanes  
Magenkrebsgewebe, humanes Nierengewebe

**IF:** humanes Plazenta-Gewebe,

## Hintergrundinformationen

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)

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
De-Liang Zhang	30213870	Blood	WB
Xiao Han	31681841	Sci Adv	WB
Cong Li	31885626	Stem Cells Int	IF

## Lagerung

**Lagerungsbedingungen:**

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

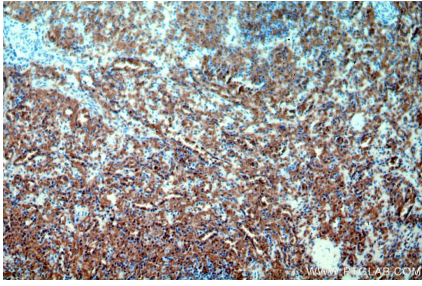
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

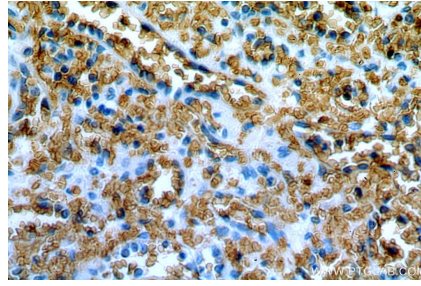
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

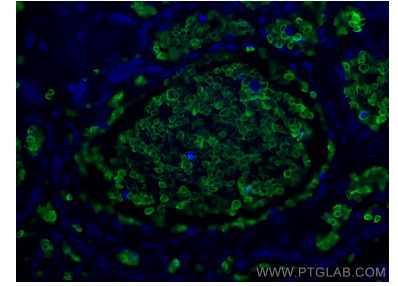
## Ausgewählte Validierungsdaten



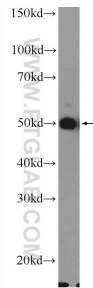
Immunohistochemical analysis of paraffin-embedded human spleen using 18566-1-AP (band 3 antibody) at dilution of 1:50 (under 10x lens).



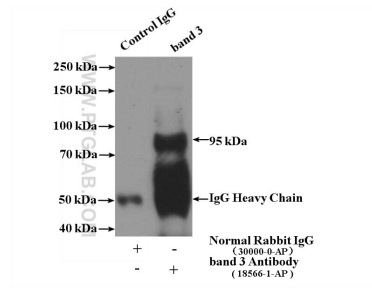
Immunohistochemical analysis of paraffin-embedded human spleen using 18566-1-AP (band 3 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using band 3/ AE1 antibody (18566-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



HepG2 cells were subjected to SDS PAGE followed by western blot with 18566-1-AP (band 3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP Result of anti-band 3 (IP:18566-1-AP, 4ug; Detection:18566-1-AP 1:300) with mouse liver tissue lysate 4000ug.