For Research Use Only

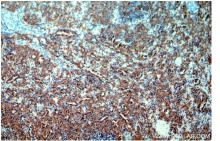
Band 3/AE 1 Polyclonal antibody

Catalog Number: 18566-1-AP 7 Publications

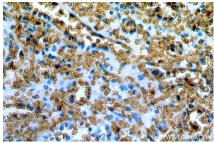


Basic Information	Catalog Number: 18566-1-AP	P02730 Full Name: solute carrier family 4, anion		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:200-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF-P 1:50-1:500				
	Size:							
	150ul , Concentration: 400 µg/ml by							
	Nanodrop and 300 µg/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG13076							
						exchanger, membe		
						membrane protein blood group)	band 3, Diego	
						Calculated MW:		
911 aa, 102 kDa								
Observed MW: 95 kDa, 50 kDa								
Applications		Tested Applications:		Positive Controls: WB : HepG2 cells, IP : mouse liver tissue, IHC : human spleen tissue, human stomach cancer				
		WB, IHC, IF-P, IP, ELISA						
		Cited Applications: WB, IHC, IF						
	Species Specificity:							
	human, mouse, rat		tissue, huma	n kidney tissue				
	Cited Species:		IF-P : human placenta tissue,					
	human, mouse, rat, plasmodium falciparum							
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen						
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 contain 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)							
	products (38-60 kDa). (PMID: 2289026	59, 29240292, 281 <u>3</u> 0	+10)					
Notable Publications			rnal	Application				
Notable Publications	Author Pub		rnal					
Notable Publications	Author Pub De-Liang Zhang 302	med ID Jou 13870 Blo	rnal	Application				
Notable Publications	AuthorPubDe-Liang Zhang302Xiao Han316	med ID Jou 13870 Blo 81841 Sci	rnal od	Application WB				
Notable Publications	AuthorPubDe-Liang Zhang302Xiao Han316	med ID Jou 13870 Blo 81841 Sci	rnal od Adv	Application WB WB				
Notable Publications Storage	Author Pub De-Liang Zhang 302 Xiao Han 316 Cong Li 318 Storage: Storage: Storage Buffer: PBS with 0.02% sodium azide and 50	med ID Jou 13870 Blo 81841 Sci 85626 Ste er shipment. % glycerol pH 7.3.	rnal od Adv	Application WB WB				
	Author Pub De-Liang Zhang 302 Xiao Han 316 Cong Li 318 Storage: Storage at -20°C. Stable for one year after storage Buffer:	med ID Jou 13870 Blo 81841 Sci 85626 Ste er shipment. % glycerol pH 7.3.	rnal od Adv	Application WB WB				

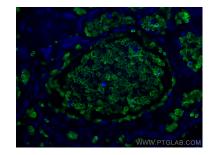
Selected Validation Data



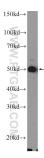
Immunohistochemical analysis of paraffinembedded human spleen using 18566-1-AP (band 3 antibody) at dilution of 1:50 (under 10x lens).

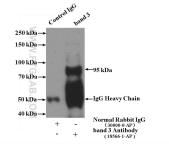


Immunohistochemical analysis of paraffinembedded human spleen using 18566-1-AP (band 3 antibody) at dilution of 1:50 (under 40x lens).



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/ AE1 (IP:18566-1-AP, 4ug; Detection:18566-1-AP 1:300) with mouse liver tissue lysate 4000ug.