## For Research Use Only

## CD45 Monoclonal antibody

Catalog Number:60287-1-lg 62 Publications



Basic Information	Catalog Number: 60287-1-lg	GenBank Accession Number: BC014239 GeneID (NCBI): 5788 ENSEMBL Gene ID: ENSG0000081237 UNIPROT ID: P08575 Full Name: protein tyrosine phosphatase, receptor type, C Calculated MW: 1304 aa, 147 kDa Observed MW: 220 kDa		Purification Method: Protein A purification CloneNo.: 4E9B2 Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:4000-1:16000 IF-P: 1:500-1:2000 IF-Fro: 1:400-1:1600 IF/ICC: 1:200-1:800	
	Size: 150ul , Concentration: 2000 ug/ml by Nanodrop;				
	Source: Mouse Isotype: IgG2a Immunogen Catalog Number: AG13712				
Applications	Tested Applications:		Positive Co	ontrols:	
	WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA		WB: pig spl	WB : pig spleen tissue, Raji cells IHC : human appendicitis tissue, human colon tissue, human liver cancer tissue, human lymphoma tissue, human tonsillitis tissue, mouse spleen tissue, rat color tissue, rat thymus tissue	
	Cited Applications: WB, IHC, IF Species Specificity:		human live		
	human, mouse, rat, pig				
	Cited Species: human, mouse, rat, pig			IF-P: mouse colon tissue, mouse spleen tissue, huma tonsillitis tissue	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF-Fro : mouse colon tissue,		
			IF/ICC : Jur	kat cells,	
Background Information	CD45, also known as leukocyte common antigen (LCA), B220, and T200, is a 180-240 kD single-chain type I membrane glycoprotein. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cell: except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 is one of the best negative selection markers for characterizing and/or isolating human mesenchymal stem cells from bone marrow and other sources. Along with the positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.				
Notable Publications	Author Pub	med ID Jo	ournal	Application	
			at Commun	IF	
			nt Immunopharma	col IF	
	Beibei Zhang 346	74752 S <sup>-</sup>	tem Cell Res Ther	IHC	
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage				
*** 20ul sizes contain 0.1% BSA	Audaound is annecessary for -20 C S	loidge			
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ita for this product please contact: E: proteintech@ptglab.com			s exclusively available under Proteintecl and is not available to purchase from any	

in USA), or 1(312) 455-8498 (outside USA)

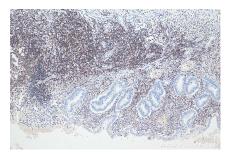
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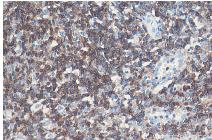
## Selected Validation Data



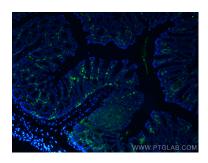
pig spleen tissue were subjected to SDS PAGE followed by western blot with 60287-1-1g (CD45 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



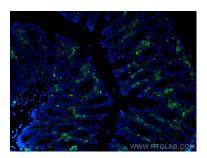
Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using 60287-1-1g (CD45 antibody) at dilution of 1:8000 (under 0x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



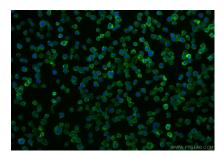
Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using 60287-1-1g (CD45 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



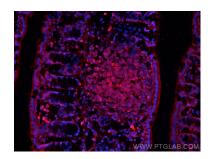
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using CD45 antibody (60287-1-Ig, Clone: 4E9B2 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using CD45 antibody (60287-1-Ig, Clone: 4E9B2 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD45 antibody (60287-1-1g, Clone: 4E9B2) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse colon tissue using 60287-1-1g (CD45 antibody) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).