

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 20103-1-AP	<b>GenBank-Zugangsnummer:</b> BC014239	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 700 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 5788	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug für IP und 1:200-1:1000 für WB
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> protein tyrosine phosphatase, receptor type, C	<b>IHC 1:1000-1:6000</b> <b>IF 1:50-1:500</b>
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 1304 aa, 147 kDa	
<b>Immunogen Katalognummer:</b> AG13712	<b>Beobachtete Masse:</b> 180-220 kDa	

## Anwendungen

**Geprüfte Anwendungen:**  
FC, IF, IHC, IP, WB, ELISA

**In Publikationen genannte Anwendungen:**  
FC, IF, IHC, WB

**Getestete Reaktivität:**  
Human, Maus, Ratte

**Zitierte Arten:**  
Huhn, Human, Maus, Ratte, Rind

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

**Positivkontrollen:**

**WB:** Jurkat-Zellen, Mausmilzgewebe, Maus-Thymusgewebe, Ratten-Thymusgewebe

**IP:** Mausmilzgewebe,

**IHC:** humanes Kolongewebe, humanes Appendizitis-Gewebe, humanes Leberkarzinomgewebe, humanes Tonsillitisgewebe, Mauslungengewebe

**IF:** humanes Tonsillitisgewebe,

## Hintergrundinformationen

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 cells, 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.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Qingrong Zhang	34655915	Colloids Surf B Biointerfaces	IHC
Xiaoliang Hua	34659199	Front Immunol	IHC
Xiuyue Song	36171979	J Tissue Eng	IF,FC

## 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**

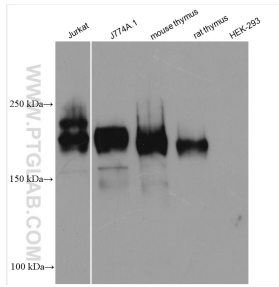
For technical support and original validation data for this product please contact:

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

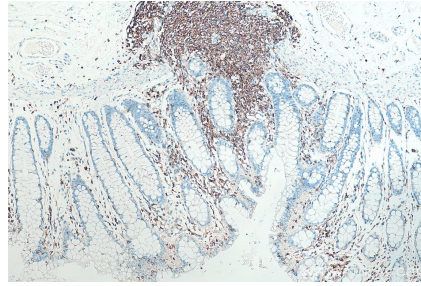
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

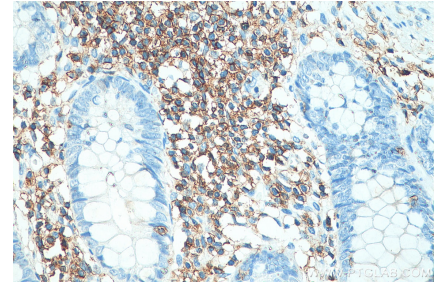
## Ausgewählte Validierungsdaten



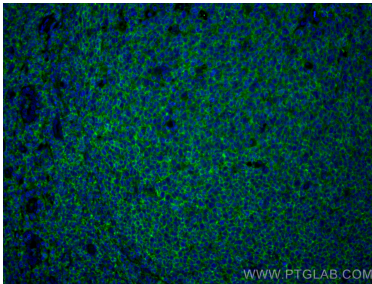
Various lysates were subjected to SDS PAGE followed by western blot with 20103-1-AP (CD45 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



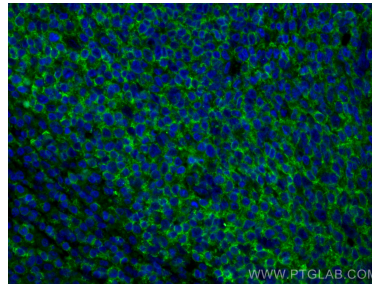
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 20103-1-AP (CD45 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



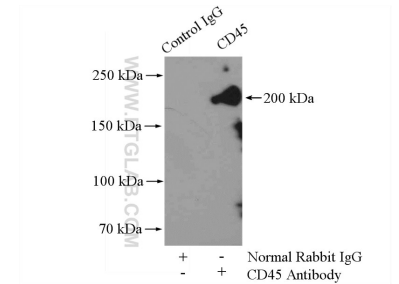
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 20103-1-AP (CD45 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



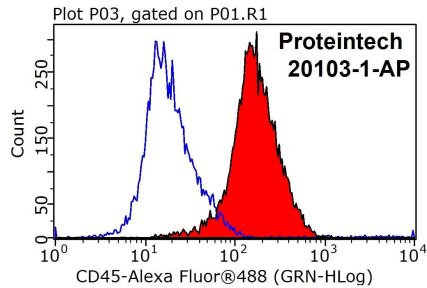
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD45 antibody (20103-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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IP Result of anti-CD45 (IP:20103-1-AP, 4ug; Detection:20103-1-AP 1:300) with mouse spleen tissue lysate 4800ug.



$1 \times 10^6$  Jurkat cells were stained with 0.5ug CD45 antibody (20103-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.