

# Anti-CD7 antibody [EPR4242] - BSA and Azide free ab230834

重组 RabMAb

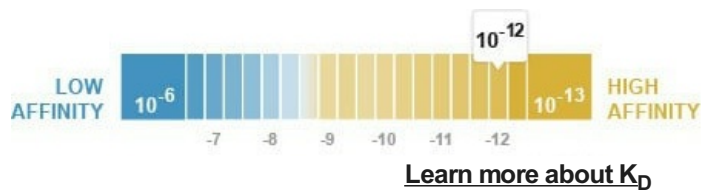
★★★★★ [2 Abreviews](#) [11 图像](#)

### 概述

产品名称	Anti-CD7抗体[EPR4242] - BSA and Azide free
描述	兔单克隆抗体[EPR4242] to CD7 - BSA and Azide free
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the IHC-P results. We do not guarantee WB for mouse and rat.
经测试应用	<b>适用于:</b> ICC/IF, Flow Cyt (Intra), WB, IP, IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Flow Cyt (intra): Jurkat cells; IP: Human spleen lysate; ICC/IF: Jurkat cells; IHC-P: Rat and mouse spleen tissues. Human colon carcinoma and tonsil tissues; WB: Human spleen lysate,
常规说明	<p>ab230834 is the carrier-free version of <a href="#">ab109296</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
解离常数 (K <sub>D</sub> )	K <sub>D</sub> = 2.40 x 10 <sup>-12</sup> M



存储溶液	pH: 7.20 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4242
同种型	IgG

## 应用

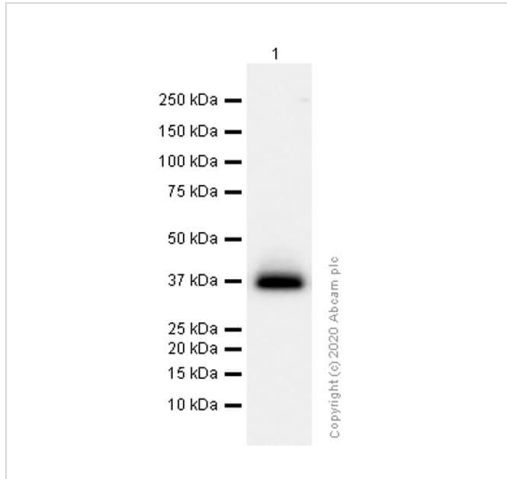
**The Abpromise guarantee**      **Abpromise™** 承诺保证使用 ab230834 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度; 实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 37 kDa (predicted molecular weight: 25 kDa).
IP		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> .

## 靶标

功能	Not yet known.
序列相似性	Contains 1 Ig-like (immunoglobulin-like) domain.
细胞定位	Membrane.



Western blot - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

Anti-CD7 antibody [EPR4242] ([ab109296](#)) at 1/10000 dilution + Human Spleen Lysate at 15 µg

**Secondary**

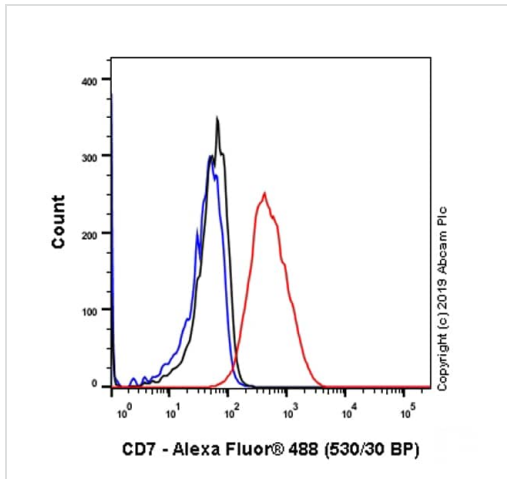
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 25 kDa

**Observed band size:** 37 kDa

This data was developed using [ab109296](#), the same antibody clone in a different buffer formulation.

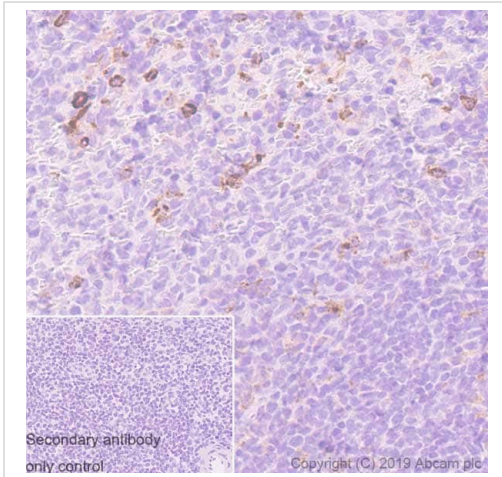
The molecular mass observed is consistent with what has been described in the literatures (PMID: 24157461, 2479685).



Flow Cytometry (Intracellular) - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

This data was developed using [ab109296](#), the same antibody clone in a different buffer formulation.

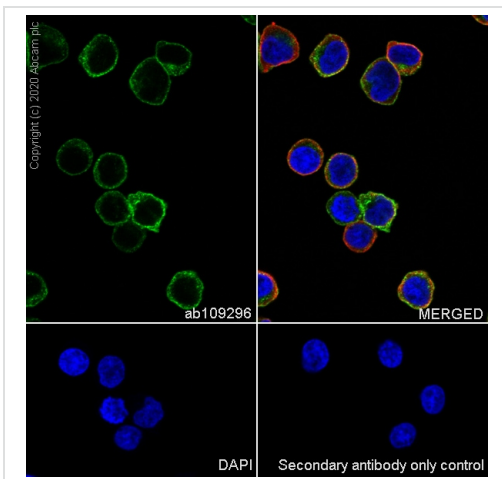
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Jurkat (Human T cell leukemia T lymphocyte) cells labelling CD7 with purified [ab109296](#) at 1/100 dilution (1 µg) (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

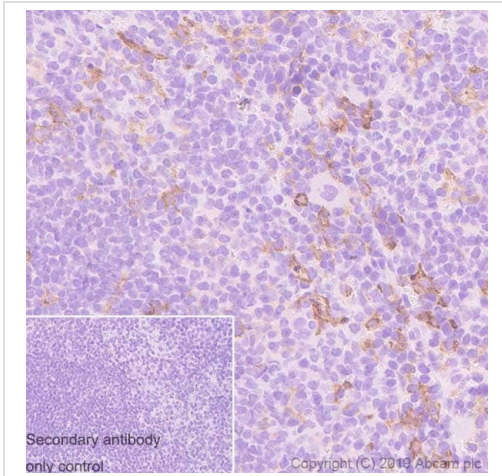
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat spleen tissue sections labeling CD7 with Purified **ab109296** at 1/8000 dilution (0.07 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunocytochemistry/ Immunofluorescence - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

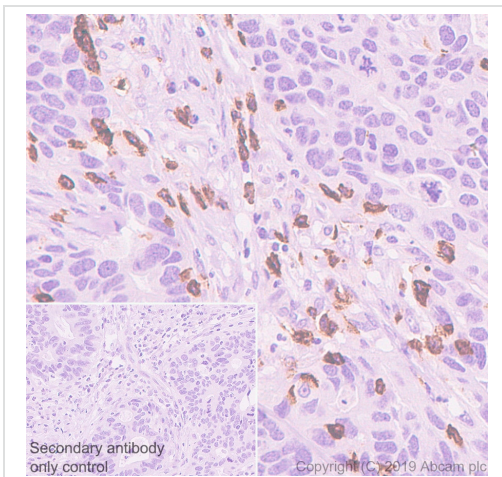
Immunocytochemistry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CD7 with Purified **ab109296** at 1/50 dilution (10 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 dilution (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/mL). DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD7 antibody [EPR4242]  
- BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

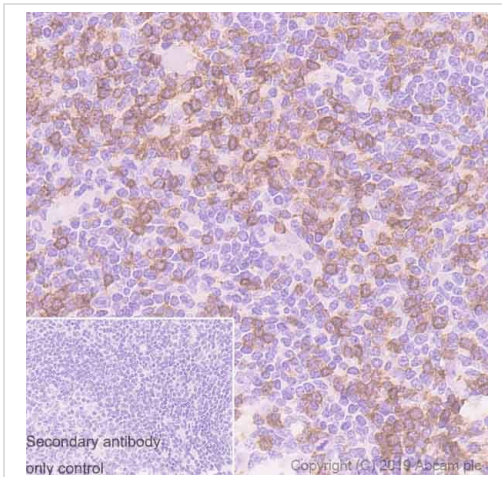
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse spleen tissue sections labeling CD7 with Purified **ab109296** at 1/8000 dilution (0.07 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD7 antibody [EPR4242]  
- BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

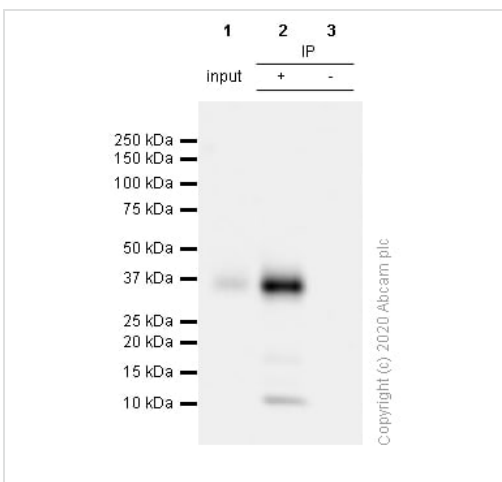
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon carcinoma tissue sections labeling CD7 with Purified **ab109296** at 1/8000 dilution (0.07 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD7 antibody [EPR4242]  
- BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD7 with Purified **ab109296** at 1/8000 dilution (0.07 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunoprecipitation - Anti-CD7 antibody [EPR4242]  
- BSA and Azide free (ab230834)

This data was developed using **ab109296**, the same antibody clone in a different buffer formulation.

CD7 was immunoprecipitated from 0.35 mg Human spleen lysate 10 µg with purified **ab109296** at 1/50. Western blot was performed on the immunoprecipitate using **ab109296** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

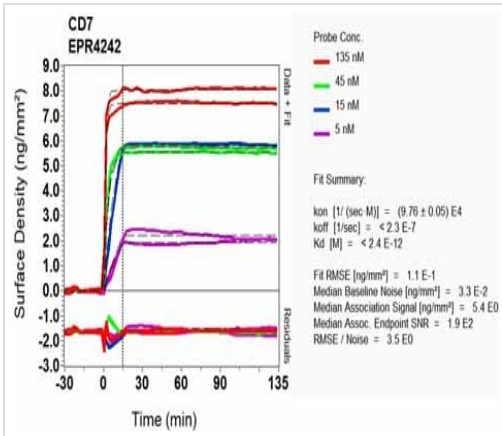
Lane 1: Human spleen lysate 10 µg

Lane 2: **ab109296** IP in Human spleen lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab109296** in Human spleen lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds



OI-RD Scanning - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109296](#)).

Tissue Microarray (TMA) data for ab109296			
Normal tissue samples		Malignant tissue samples	
Human cardiac muscle	x	Human placenta	x (immune cells ✓)
Human cerebrum	x	Human skeletal muscle	x
Human colon	x (immune cells ✓)	Human skin	x (immune cells ✓)
Human endometrium	x (immune cells ✓)	Human spleen	✓
Human kidney	x (immune cells ✓)	Human stomach	x (immune cells ✓)
Human liver	x (immune cells ✓)	Human testis	x
Human lung	x (immune cells ✓)	Human thyroid	x (immune cells ✓)
Human mammary gland	x (immune cells ✓)	Human tonsil	✓
Human pancreas	x (immune cells ✓)		
		Clear cell carcinoma of human kidney	x (immune cells ✓)
		Human astrocytoma	x
		Human bladder cancer	x (immune cells ✓)
		Human breast carcinoma	x (immune cells ✓)
		Human cervical carcinoma	x (immune cells ✓)
		Human colon carcinoma	x (immune cells ✓)
		Human endometrial carcinoma	x (immune cells ✓)
		Human gastric adenocarcinoma	x (immune cells ✓)
		Human hepatocellular carcinoma	x (immune cells ✓)
		Human lung carcinoma	x (immune cells ✓)
		Human ovarian carcinoma	x (immune cells ✓)
		Human pancreatic carcinoma	x (immune cells ✓)
		Human prostatic hyperplasia	x (immune cells ✓)
		Human thyroid carcinoma	x (immune cells ✓)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD7 antibody [EPR4242] - BSA and Azide free (ab230834)

Tissue Microarrays stained for "Anti-CD7 antibody [EPR4242]" using "[ab109296](#)" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with [ab109296](#) for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CD7 antibody [EPR4242] - BSA and Azide free  
(ab230834)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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