

Anti-CD45 antibody [BL-178-12C7] ab243869

リコンビナント

画像数 7

製品の概要

製品名	Anti-CD45 antibody [BL-178-12C7]
製品の詳細	Rabbit monoclonal [BL-178-12C7] to CD45
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P, ICC, IP, Flow Cyt
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide within Human CD45 aa 1250-1306 (C terminal). The exact sequence is proprietary. NP_002829.3 and Gene ID 5788. Database link: <b>P08575</b>
特記事項	This product is sold under License from Bethyl Laboratories, Inc.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
特記事項(精製)	Recombinant antibody was purified from cell culture supernatant.
ポリ/モノ	モノクローナル
クローン名	BL-178-12C7
アイソタイプ	IgG

アプリケーション

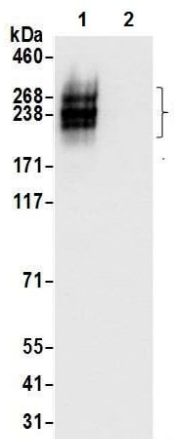
The Abpromise guarantee      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab243869の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		1/100 - 1/500.
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.
Flow Cyt		Use 1µl for 10 <sup>6</sup> cells.

## ターゲット情報

機能	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN.
関連疾患	Defects in PTPRC are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)B(+)NK(+) SCID) [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Genetic variations in PTPRC are involved in multiple sclerosis susceptibility (MS) [MIM:126200]. MS is a neurodegenerative disorder characterized by the gradual accumulation of focal plaques of demyelination particularly in the periventricular areas of the brain. Peripheral nerves are not affected. Onset usually in third or fourth decade with intermittent progression over an extended period. The cause is still uncertain.
配列類似性	Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.
ドメイン	The first PTPase domain interacts with SKAP1.
翻訳後修飾	Heavily N- and O-glycosylated.
細胞内局在	Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

## 画像



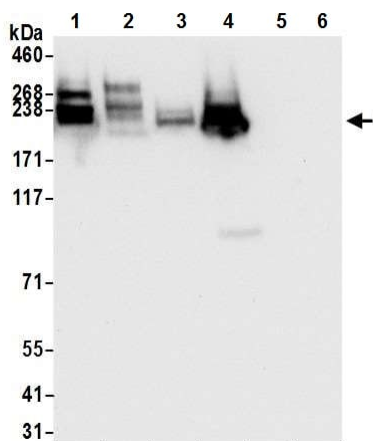
Immunoprecipitation - Anti-CD45 antibody [BL-178-12C7] (ab243869)

CD45 was immunoprecipitated from 1 mg Jurkat whole cell lysate with ab243869 at 20  $\mu$ l per reaction. Western blot was performed on the immunoprecipitate using ab243869 at 1/1000 dilution.

Lane 1: ab243869 IP in Jurkat cell lysate.

Lane 2: Control IgG in Jurkat cell lysate.

Detection: Chemiluminescence with an exposure time of 3 seconds.



Western blot - Anti-CD45 antibody [BL-178-12C7] (ab243869)

Western blot analysis using ab243869 at 1/1000 dilution.

Lane 1: Jurkat whole cell lysate (50  $\mu$ g).

Lane 2: MOLT-4 whole cell lysate (50  $\mu$ g).

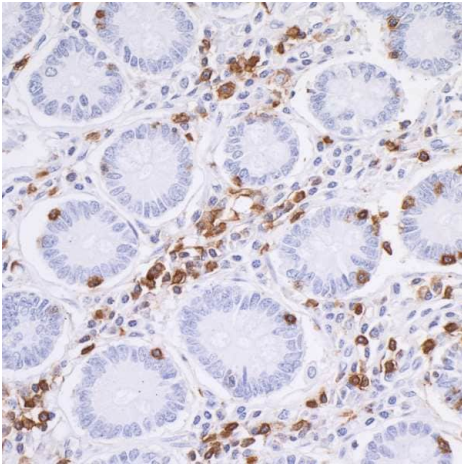
Lane 3: K562 whole cell lysate (50  $\mu$ g).

Lane 4: SR whole cell lysate (50  $\mu$ g).

Lane 5: HeLa whole cell lysate (50  $\mu$ g).

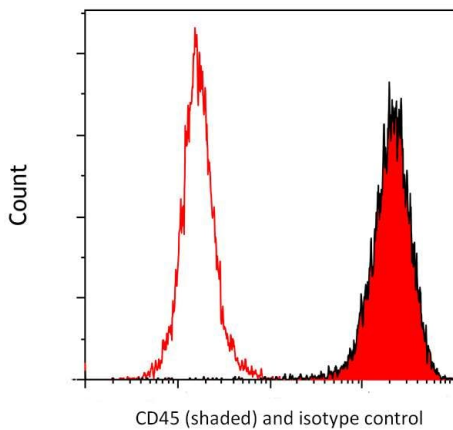
Lane 6: HEK-293T whole cell lysate (50  $\mu$ g).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the secondary. Detection: chemiluminescence with an exposure time of 3 seconds.



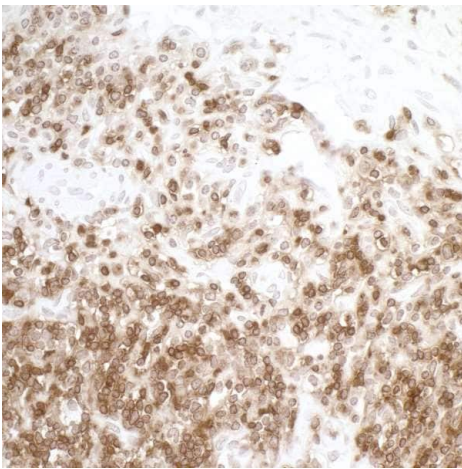
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45 antibody [BL-178-12C7] (ab243869)

Formalin-fixed, paraffin-embedded human small intestine tissue stained for CD45 using ab243869 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.



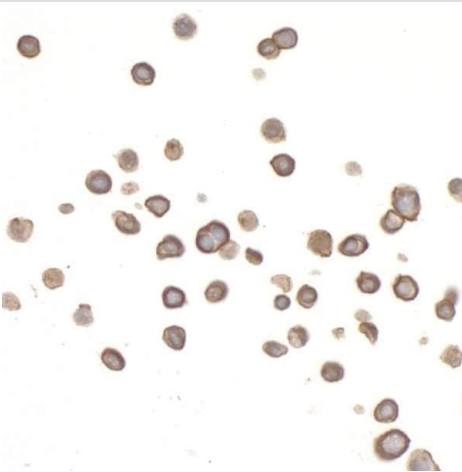
Flow Cytometry - Anti-CD45 antibody [BL-178-12C7] (ab243869)

Flow cytometric analysis of 4% formaldehyde and permeabilized with 90% methanol Jurkat (Human T cell leukemia cell line from peripheral blood) cells labelling CD45 with ab243869 at  $1\mu\text{l}/10^6$  cells (Red shaded) compared with a Isotype control (unshaded). DyLight® 650-conjugated goat anti-rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45 antibody [BL-178-12C7] (ab243869)

Formalin-fixed, paraffin-embedded human appendix tissue stained for CD45 using ab243869 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.



Immunocytochemistry - Anti-CD45 antibody [BL-178-12C7] (ab243869)

Formaldehyde-fixed Jurkat (human T cell leukemia cell line from peripheral blood) cells labeling CD45 using ab243869 at 1/250 dilution in ICC/IF analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary antibody.

### 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-CD45 antibody [BL-178-12C7] (ab243869)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors