abcam

Product datasheet

Anti-CD45 antibody [Hle-1] ab18613

★★★★★ 1 Abreviews　2 References　画像数 3

製品の概要

製品名	Anti-CD45 antibody [Hle-1]
製品の詳細	Mouse monoclonal [Hle-1] to CD45
由来種	Mouse
アプリケーション	**適用あり:** IHC-P, IHC-Fr, Flow Cyt
種交差性	**交差種:** Human
免疫原	Ficoll-Triosil-separated human peripheral blood mononuclear cells.

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 or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: None Constituents: PBS
精製度	IgG fraction
ポリ/モノ	モノクローナル
クローン名	Hle-1
アイソタイプ	IgG1

アプリケーション

Our Abpromise guarantee covers the use of **ab18613** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

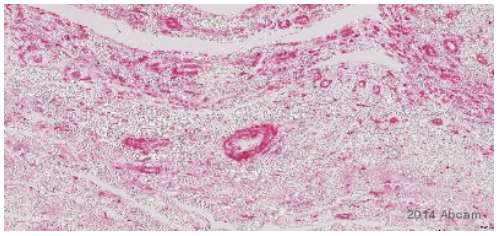
アプリケーション	Abreviews	特記事項
IHC-P	★★★★★	Use a concentration of 1 µg/ml.
IHC-Fr		Use at an assay dependent concentration.

アプリケーション	Abreviews	特記事項
Flow Cyt		Use 1µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.

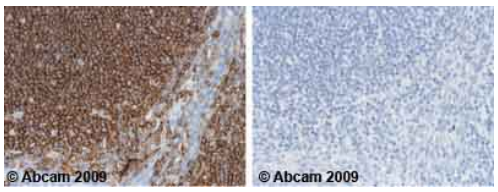
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45 antibody [Hle-1] (ab18613)

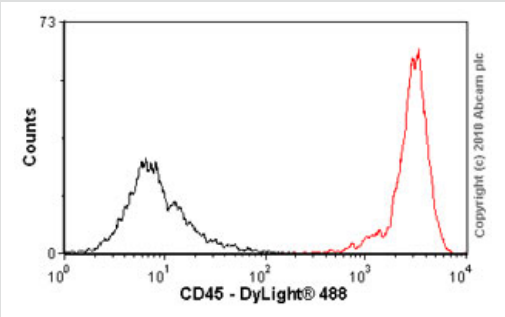
This image is courtesy of an anonymous Abreview

ab18613 staining CD45 in human synovium tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with zinc buffered formalin and blocked with 5% serum for 1 hour at 27°C; antigen retrieval was by heat mediation in Tris HCl pH 10. Samples were incubated with primary antibody (1/100) for 15 hours at 4°C. A Streptavidin-conjugated goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-CD45 antibody [Hle-1] (ab18613)

Ab18613 staining Human normal tonsil. Staining is localized to the cell membrane
Left panel: with primary antibody at 1 ug/ml.
Right panel: isotype control.
Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers citrate pH 6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Flow Cytometry - CD45 antibody [Hle-1] (ab18613)

Overlay histogram showing peripheral blood lymphocytes stained with ab18613 (red line). The cells were incubated with the antibody (ab18613, 1µg/1x10^6 cells) for 30 min at 4ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/200 dilution for 30 min at 4ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed gating on peripheral blood lymphocytes.

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