

Product datasheet

Anti-CD97 antibody [EPR4427] ab108368

リコンビナント RabMAb[®]

3 References 画像数 6

製品の概要

製品名	Anti-CD97 antibody [EPR4427]
製品の詳細	Rabbit monoclonal [EPR4427] to CD97
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt, WB, IP, IHC-P, ICC, ICC/IF
種交差性	交差種: Human
免疫原	A synthetic peptide corresponding to residues in the extracellular domain of Human CD97.
ポジティブ・コントロール	Human tonsil, Jurkat, U937, and fetal thymus lysates; Human spleen, colon adenocarcinoma and tonsil tissues. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: MDA-MB-231
特記事項	<p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.20 Constituents: 0.35% Sodium citrate, 0.17% Sodium chloride, 0.03% EDTA, 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4427
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab108368** in the following tested applications.

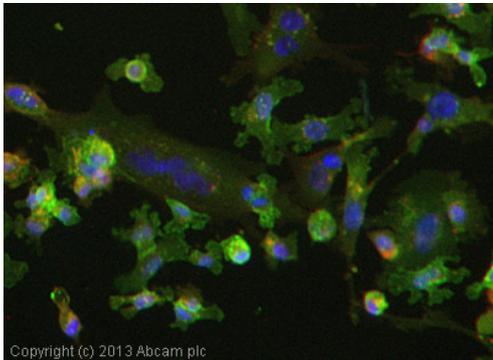
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
Flow Cyt		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Predicted molecular weight: 92 kDa.
IP		1/10 - 1/100.
IHC-P		1/250 - 1/500. Antigen retrieval is recommended.
ICC		1/250 - 1/500.
ICC/IF		1/200.

ターゲット情報

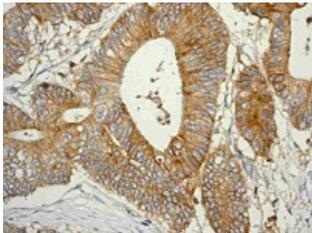
機能	Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration.
組織特異性	Broadly expressed, found on most hematopoietic cells, including activated lymphocytes, monocytes, macrophages, dendritic cells, and granulocytes. Expressed also abundantly by smooth muscle cells. Expressed in thyroid, colorectal, gastric, esophageal and pancreatic carcinomas too. Expression are increased under inflammatory conditions in the CNS of multiple sclerosis and in synovial tissue of patients with rheumatoid arthritis. Increased expression of CD97 in the synovium is accompanied by detectable levels of soluble CD97 in the synovial fluid.
配列類似性	Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 5 EGF-like domains. Contains 1 GPS domain.
ドメイン	The first two EGF domains mediate the interaction with DAF. A third tandemly arranged EGF domain is necessary for the structural integrity of the binding region. Binding to chondroitin sulfate is mediated by the fourth EGF domain.
翻訳後修飾	Proteolytically cleaved into 2 subunits, an extracellular alpha subunit and a seven-transmembrane subunit.
細胞内局在	Cell membrane and Secreted > extracellular space.

画像



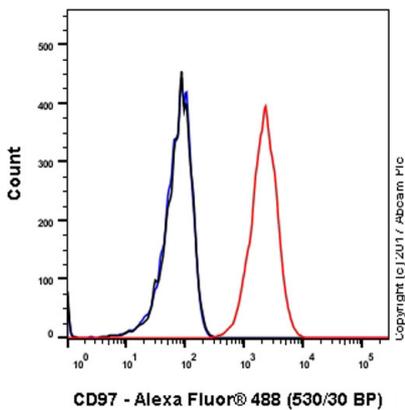
Immunocytochemistry/ Immunofluorescence - Anti-CD97 antibody [EPR4427] (ab108368)

ICC/IF image of ab108368 stained MDA-MB-231 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab108368 at 1/200 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



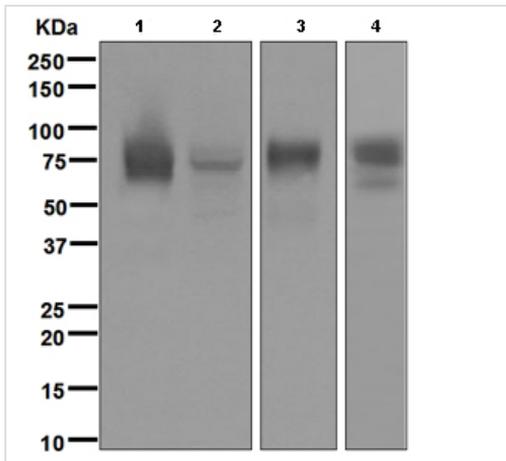
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD97 antibody [EPR4427] (ab108368)

ab108368 at 1/250 dilution staining CD97 in human colonic adenocarcinoma by Immunohistochemistry, Paraffin-embedded tissue.



Flow Cytometry - Anti-CD97 antibody [EPR4427] (ab108368)

Flow Cytometry analysis of MDA-MB-231 (human mammary gland epithelial adenocarcinoma) cells labeling CD97 with purified ab108368 at 1/250 dilution (10ug/ml) (red). A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Western blot - Anti-CD97 antibody [EPR4427] (ab108368)

All lanes : Anti-CD97 antibody [EPR4427] (ab108368) at 1/1000 dilution

Lane 1 : Human tonsil lysate

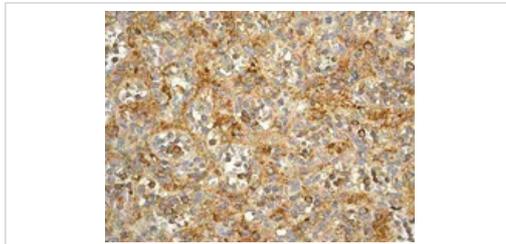
Lane 2 : Jurkat cell lysate

Lane 3 : U937 cell lysate

Lane 4 : Human fetal thymus lysate

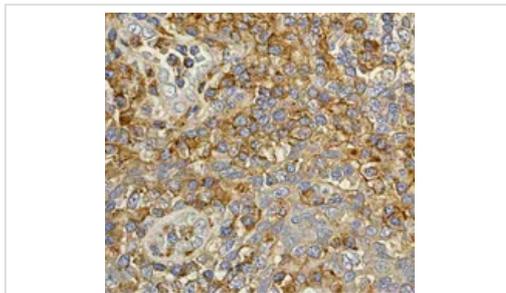
Lysates/proteins at 10 µg per lane.

Predicted band size: 92 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD97 antibody [EPR4427] (ab108368)

ab108368 at 1/250 dilution staining CD97 in human spleen by Immunohistochemistry, Paraffin-embedded tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD97 antibody [EPR4427] (ab108368)

ab108368 at 1/250 dilution staining CD97 in human colon adenocarcinoma tissue by Immunohistochemistry, Paraffin-embedded tissue.

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