

Anti-CD13 antibody [WM15] - BSA and Azide free ab252261

敲除验证 重组

12 References 6 图像

概述

产品名称	Anti-CD13抗体[WM15] - BSA and Azide free
描述	小鼠单克隆抗体[WM15] to CD13 - BSA and Azide free
宿主	Mouse
经测试应用	适用于: ICC/IF, Flow Cyt
种属反应性	与反应: Human
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
表位	The antibody recognizes an extracellular epitope.
阳性对照	ICC/IF: A375, PANC-1 and THP-1 cells. Flow Cyt: THP-1 cells and Human peripheral blood leukocytes.
常规说明	<p>ab252261 is the carrier-free version of ab7417.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>Our carrier-free 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 conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <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[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.

存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	WM15
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab252261于以下的经测试应用

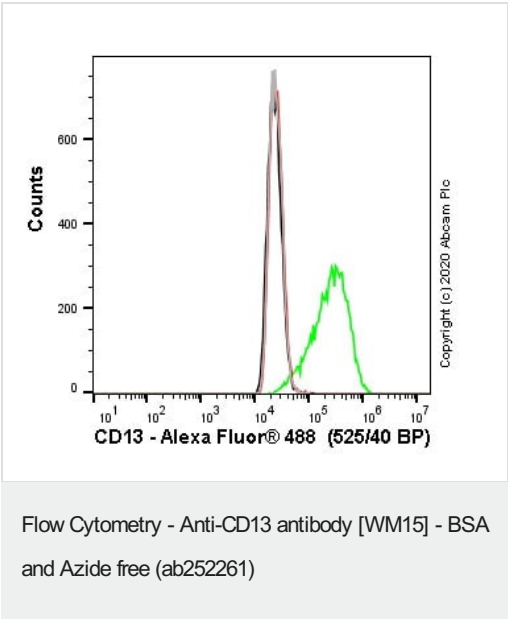
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/50.
Flow Cyt		1/400.

靶标

功能	Broad specificity aminopeptidase. Plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. May play a critical role in the pathogenesis of cholesterol gallstone disease. May be involved in the metabolism of regulatory peptides of diverse cell types including small intestinal and tubular epithelial cells, macrophages, granulocytes and synaptic membranes from the CNS. Found to cleave antigen peptides bound to major histocompatibility complex class II molecules of presenting cells and to degrade neurotransmitters at synaptic junctions. Is also implicated as a regulator of IL-8 bioavailability in the endometrium, and therefore may contribute to the regulation of angiogenesis. Is used as a marker for acute myeloid leukemia and plays a role in tumor invasion. In case of human coronavirus 229E (HCoV-229E) infection, serves as receptor for HCoV-229E spike glycoprotein. Mediates as well human cytomegalovirus (HCMV) infection.
组织特异性	Expressed in epithelial cells of the kidney, intestine, and respiratory tract; granulocytes, monocytes, fibroblasts, endothelial cells, cerebral pericytes at the blood-brain barrier, synaptic membranes of cells in the CNS. Also expressed in endometrial stromal cells, but not in the endometrial glandular cells. Found in the vasculature of tissues that undergo angiogenesis and in malignant gliomas and lymph node metastases from multiple tumor types but not in blood vessels of normal tissues. A soluble form has been found in plasma. It is found to be elevated in plasma and effusions of cancer patients.
序列相似性	Belongs to the peptidase M1 family.
结构域	Amino acids 260-353 are essential to mediate susceptibility to infection with HCoV-229E (in porcine/human chimeric studies) and more specifically amino acids 288-295 (mutagenesis studies).
翻译后修饰	Sulfated. N- and O-glycosylated. May undergo proteolysis and give rise to a soluble form.

图片

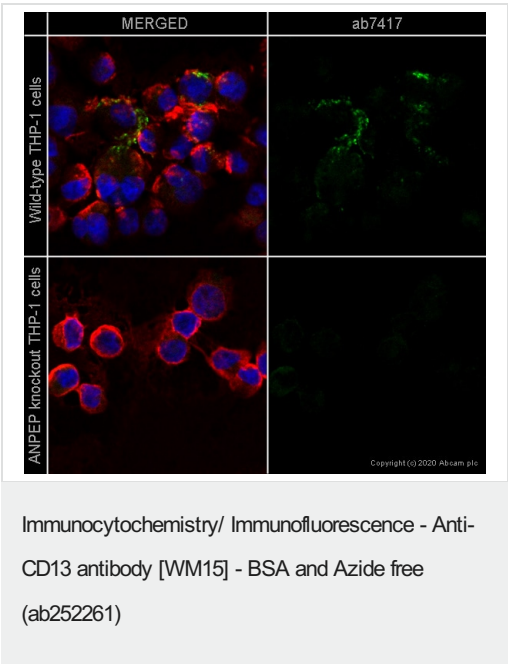


This data was developed using the same antibody clone in a different buffer formulation ([ab7417](#))

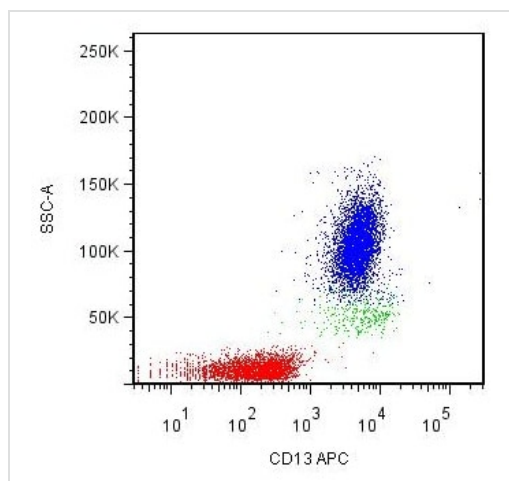
Flow cytometry overlay histogram showing wild-type THP1 (green line) and ANPEP knockout THP1 cells ([ab273759](#)) stained with [ab7417](#) (red line). The cells were incubated in 1x PBS containing 10µg/ml human IgG and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody ([ab7417](#)) (1×10^6 in 100µl at 1 µg/ml) for 30 min at 4°C. The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor® 488, pre-adsorbed) ([ab150117](#)) was used at 1/2000 for 30 min at 4°C.

Isotype control antibody was mouse IgG1κ ([ab170190](#)) used at the same concentration and conditions as the primary antibody (wild-type THP1 cells - black line; ANPEP knockout THP1 cells [ab273759](#) - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



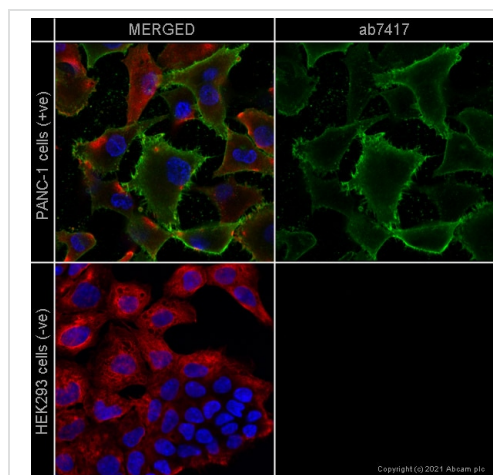
This data was developed using the same antibody clone in a different buffer formulation ([ab7417](#)). [ab7417](#) staining CD13 in wild-type THP-1 cells (top panel) and ANPEP knockout THP-1 cells (bottom panel) ([ab273759](#)). The cells were fixed with 4% paraformaldehyde (10 min) then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with [ab7417](#) at 2.5µg/ml concentration and [ab6046](#) (Rabbit polyclonal to beta Tubulin) at 1/1000 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to mouse IgG (Alexa Fluor® 488) ([ab150117](#)) at 2 µg/ml (shown in green) and a goat secondary antibody to rabbit IgG (Alexa Fluor® 594) ([ab150080](#)) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI. Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).



Flow Cytometry - Anti-CD13 antibody [WM15] - BSA and Azide free (ab252261)

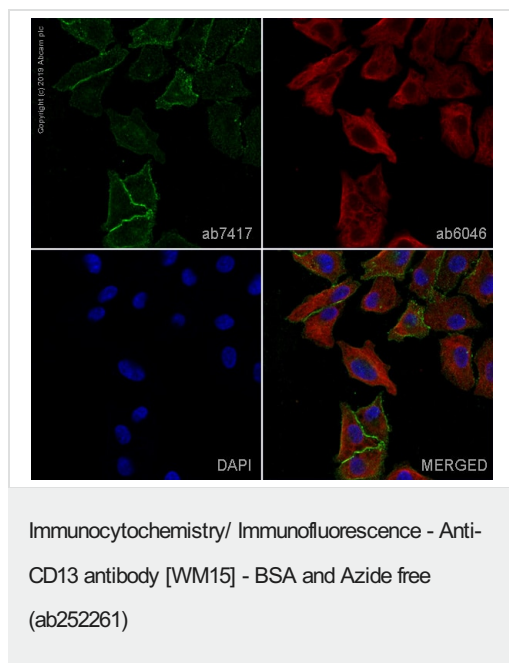
This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide (**ab7417**).

ab7417 staining CD13 on the surface of human peripheral blood leukocytes in Flow Cytometry.



Immunocytochemistry/ Immunofluorescence - Anti-CD13 antibody [WM15] - BSA and Azide free (ab252261)

This data was developed using the same antibody clone in a different buffer formulation (**ab7417**). **ab7417** staining CD13 in PANC-1 cells (top panel - positive control) and HEK-293 cells (bottom panel - negative control). The cells were fixed with 4% paraformaldehyde (10 min) then permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab7417** at 0.5µg/ml concentration and **ab6046** (Rabbit polyclonal to beta Tubulin) at 1/1000 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to mouse IgG (Alexa Fluor® 488) (**ab150117**) at 2 µg/ml (shown in green) and a goat secondary antibody to rabbit IgG (Alexa Fluor® 594) (**ab150080**) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI. Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).



This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide (**ab7417**).

ab7417 staining CD13 in A375 (Human epithelial cell line from skin malignant melanoma) cells.

The cells were fixed with 100% methanol (5min), permeabilized with 0.1%PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab7417** at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control, at 1/1000 dilution. Cells were then incubated with **ab150117**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolor red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also produced a positive signal in A375 when fixed with 4% formaldehyde (10min).

Why choose a recombinant antibody?



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Anti-CD13 antibody [WM15] - BSA and Azide free
(ab252261)

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