

### PerCP/Cy5.5® Anti-CD13 antibody [WM15] ab157316

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#### Overview

<b>Product name</b>	PerCP/Cy5.5® Anti-CD13 antibody [WM15]
<b>Description</b>	PerCP/Cy5.5® Mouse monoclonal [WM15] to CD13
<b>Host species</b>	Mouse
<b>Conjugation</b>	PerCP/Cy5.5®. Ex: 482nm, Em: 690nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Non human primates
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human CD13. Human AML cells.
<b>Positive control</b>	Human blood cells.
<b>General notes</b>	<p>Purified antibody is conjugated with tandem dye PerCP/Cy5.5® under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	<p>pH: 7.4</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituents: 99% PBS, 0.2% BSA</p>
<b>Purity</b>	Size exclusion
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	WM15
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157316 in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt		Use 4µl for 10 <sup>6</sup> cells. (or 100 µl of whole blood).  <b>ab157226</b> Mouse monoclonal IgG1 is suitable for use as an

## Target

### Function

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.

### Tissue specificity

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.

### Sequence similarities

Belongs to the peptidase M1 family.

### Domain

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).

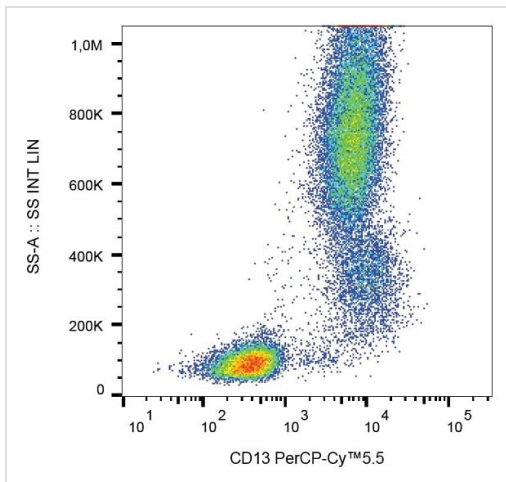
### Post-translational modifications

Sulfated.  
N- and O-glycosylated.  
May undergo proteolysis and give rise to a soluble form.

### Cellular localization

Cell membrane. Cytoplasm > cytosol. A soluble form has also been detected.

## Images



Flow Cytometry - PerCP/Cy5.5® Anti-CD13  
antibody [WM15] (ab157316)

Flow cytometry analysis of CD13 in human peripheral blood leukocytes with ab157316.

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

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