

Product datasheet

Anti-CD13 antibody [WM15] (Biotin) ab130430

1 Image

Overview

Product name	Anti-CD13 antibody [WM15] (Biotin)
Description	Mouse monoclonal [WM15] to CD13 (Biotin)
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human, Non human primates
Immunogen	Human AML cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Size exclusion
Clonality	Monoclonal
Clone number	WM15
Isotype	IgG1

Applications

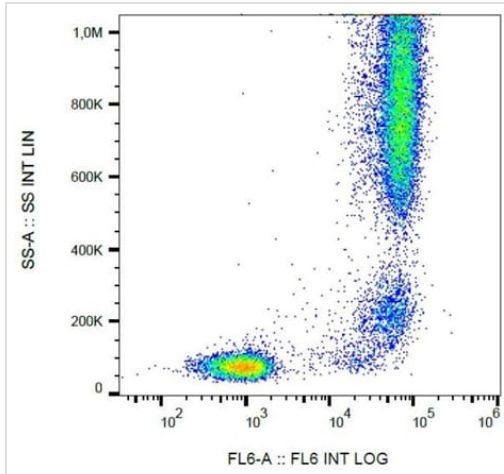
Our [Abpromise guarantee](#) covers the use of **ab130430** in the following tested applications.

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

Application	Abreviews	Notes
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Application	Abreviews	Notes
Flow Cyt		Use a concentration of 5 µg/ml. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
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Target		
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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



Analysis by flow cytometry of ab130430 staining CD13 in human peripheral blood leukocytes.

Flow Cytometry - Anti-CD13 antibody [WM15]
(Biotin) (ab130430)

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