

Product datasheet

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ARG62721 anti-CD13 antibody [WM15]

Package: 100 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [WM15] recognizes CD13

Tested Reactivity Hu, NHuPrm

Tested Application CyTOF®-candidate, FACS, FuncSt, IHC-Fr, IP

Specificity The clone WM15 recognises the human CD13 cell surface glycoprotein, a 150 kDa molecule expressed

on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.

HLDA III; WS Code M 213 HLDA IV; WS Code M 44 HLDA IV; WS Code M 209 HLDA V; WS Code M MA191

Host Mouse

Clonality Monoclonal

Clone WM15
Isotype IgG1

Target Name CD13

Species Human

Immunogen Human AML cells

Conjugation Un-conjugated

Alternate Names AP-N; PEPN; LAP1; CD antigen CD13; Aminopeptidase M; gp150; Aminopeptidase N; EC 3.4.11.2;

Myeloid plasma membrane glycoprotein CD13; APN; CD13; P150; AP-M; GP150; hAPN; Microsomal

aminopeptidase; Alanyl aminopeptidase

Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	FACS	1 - 4 μg/ml
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	Functional studies: The clone WM15 inhibits infection of cells by human coronavirus and inhibits aminopeptidase N activity of the CD13 molecule immunoprecipitates. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purified from hybridoma culture supernatant by protein A-affinity chromatography.

Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 290 Human</u>

Swiss-port # P15144 Human

Gene Symbol ANPEP

Gene Full Name alanyl (membrane) aminopeptidase

Background CD13 (aminopeptidase N, APN) is a 150 kDa type II transmembrane zinc-binding ectopeptidase

expressed on various cell types. This metalloprotease preferentially catalyzes removal of neutral amino acids from small peptides, thus activating or inactivating bioactive peptides. CD13 has also role in extracellular matrix degradation, antigen processing and signal transduction, is important in inflammatory responses, regulates intercellular contact, cell motility and vascularization. CD13 is involved in protection of leukemic cells against apoptosis and its expression associated with poor

prognosis of carcinomas.

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, responsible for the processing of peptide hormones, such as angiotensin III and IV,

neuropeptides, and chemokines. 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. [UniProt]

Highlight Related products:

CD13 antibodies; CD13 ELISA Kits; Anti-Mouse IgG secondary antibodies;

Related news:

CyTOF-candidate Antibodies

Research Area Developmental Biology antibody; Immune System antibody

Calculated Mw 110 kDa
PTM Sulfated.

N- and O-glycosylated.

May undergo proteolysis and give rise to a soluble form.