

## Product datasheet

## Anti-CD13 antibody ab105623

## 2 图像

## 概述

产品名称	Anti-CD13抗体
描述	兔多克隆抗体to CD13
宿主	Rabbit
经测试应用	适用于: WB
种属反应性	与反应: Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 700 - 800 of Human CD13.参阅Abcam的专有抗源政策
阳性对照	This antibody gave a positive signal in Human kidney tissue lysate.

## 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

## 应用

## The Abpromise guarantee

**Abpromise™**承诺保证使用ab105623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
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 152 kDa (predicted molecular weight: 110 kDa).

## 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.

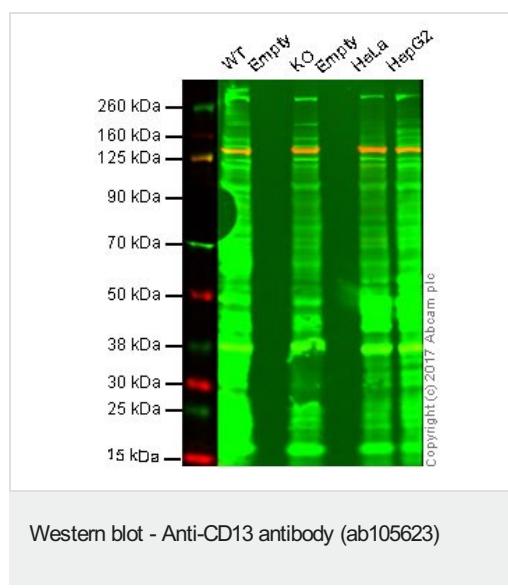
N- and O-glycosylated.

May undergo proteolysis and give rise to a soluble form.

### 细胞定位

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

## 图片



**Lane 1:** Wild type HAP1 whole cell lysate (20 µg)

**Lane 2:** Empty

**Lane 3:** CD13 (KO) whole cell lysate (20 µg)

**Lane 4:** Empty

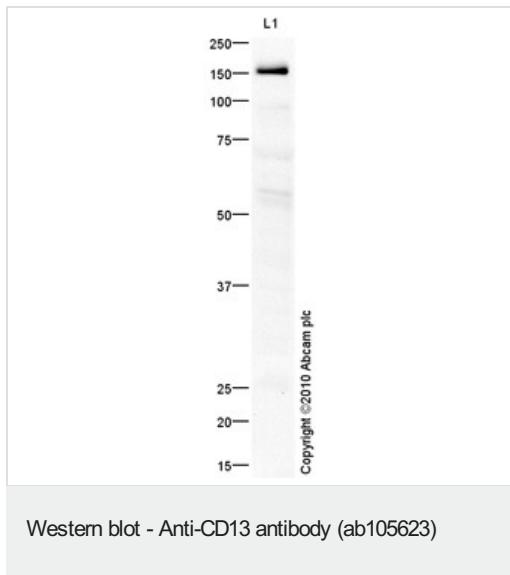
**Lane 5:** HeLa whole cell lysate (20 µg)

**Lane 6:** HepG2 whole cell lysate (20 µg)

**Lanes 1 - 6:** Merged signal (red and green). Green - ab105623 observed at 160 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab105623 was shown not to specifically react with CD13 when CD13 knockout samples were used. Wild-type and CD13 knockout samples were subjected to SDS-PAGE. Ab105623 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW)

preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Anti-CD13 antibody (ab105623) at 1 µg/ml + Human kidney tissue lysate - total protein (**ab30203**) at 10 µg

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Performed under reducing conditions.

**Predicted band size:** 110 kDa

**Observed band size:** 152 kDa

**Additional bands at:** 56 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 16 minutes

CD13 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.

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

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