


Anti-CD44 antibody ab157107

★★★★★ [31 Abreviews](#) [172 References](#) [9 图像](#)

概述

产品名称	Anti-CD44抗体
描述	兔多克隆抗体to CD44
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Baboon, Cynomolgus monkey, Rhesus monkey, Gorilla, Orangutan, Platypus 
免疫原	Synthetic peptide within Human CD44 aa 650-750. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: P16070-1 Run BLAST with Run BLAST with
阳性对照	IHC-P: Human squamous cell carcinoma, lung cancer, skin, cervical cancer. Mouse spleen and plasmacytoma tissue; rat spleen tissue. WB: A549, HeLa, U2OS, TCMK-1, NIH/3T3 cells IP: HeLa and HAP1 cells.
常规说明	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. 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&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.00 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate

纯度	Immunogen affinity purified
纯化说明	ab157107 was affinity purified using an epitope specific to CD44 immobilized on solid support.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab157107 于以下的经测试应用

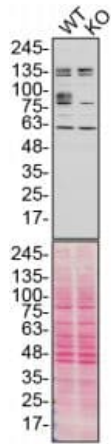
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (2)	1/2000 - 1/10000. Predicted molecular weight: 81 kDa.
IP		Use at 2-10 µg/mg of lysate.
IHC-P	★★★★★ (11)	1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

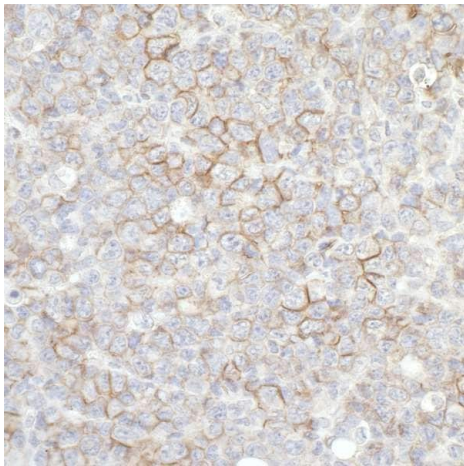
功能	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.
组织特异性	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
序列相似性	Contains 1 Link domain.
结构域	The lectin-like LINK domain is responsible for hyaluronan binding.
翻译后修饰	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N-glycosylated. O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.
细胞定位	Membrane.

图片



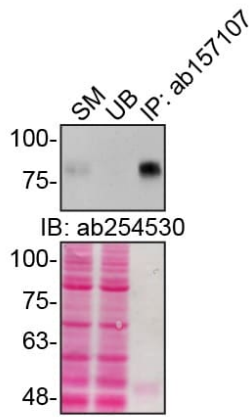
Western blot - Anti-CD44 antibody (ab157107)

ab157107 was shown to react with CD44 in wild-type HAP1 cells in Western blot with loss of signal observed in a CD44 knockout cell line. Wild-type HAP1 and CD44 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab157107 overnight at 4 °C at a 1/2000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2 µg/ml before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



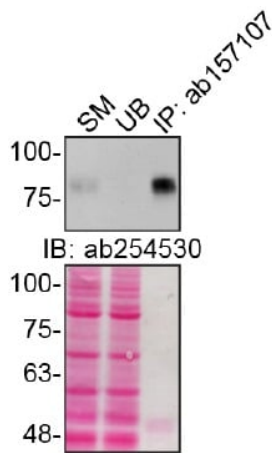
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44 antibody (ab157107)

Immunohistochemistry analysis (formalin-fixed, paraffin embedded sections) of mouse plasmacytoma tissue staining CD-44 with ab157107 at 1:5000 dilution.



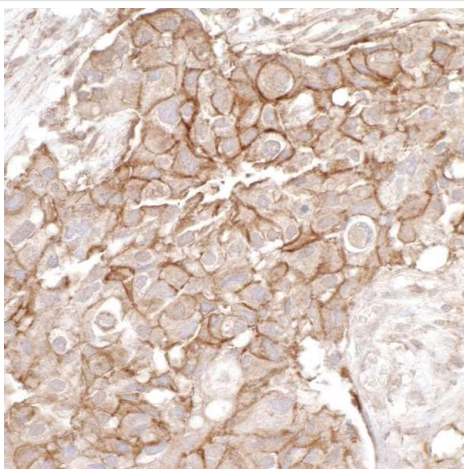
Immunoprecipitation - Anti-CD44 antibody
(ab157107)

Immunoprecipitation of CD44 in HAP1 cells. Lysates were prepared and immunoprecipitation was performed using 1.0 µg of ab157107 pre-coupled to prot.A-Sepharose beads. Samples were washed and processed for western blot with [ab254530](#) at 1/2000. This data was kindly provided by the YCharOS Inc., an open science company with the mission of characterizing every commercially available antibody reagent. Abcam are working with YCharOS to support their mission of antibody characterisation using knock out cell lines.



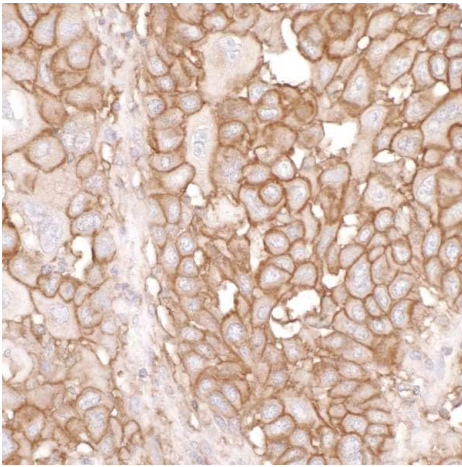
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Immunoprecipitation of CD44 in HAP1 cells. Lysates were prepared and immunoprecipitation was performed using 1.0 µg of ab157107 pre-coupled to prot.A-Sepharose beads. Samples were washed and processed for western blot with [ab254530](#) at 1/2000. SM=10% starting material; UB=10% unbound fraction; IP=immunoprecipitate. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



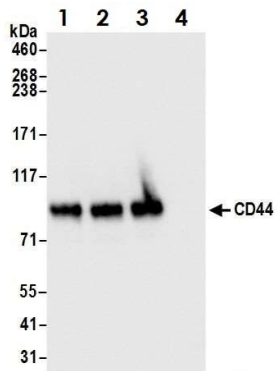
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44 antibody
(ab157107)

Immunohistochemistry analysis (formalin-fixed, paraffin embedded sections) of human lung cancer tissue staining CD-44 with ab157107 at 1:5000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44 antibody (ab157107)

Immunohistochemistry analysis (formalin-fixed, paraffin embedded sections) of human head and neck squamous cell carcinoma tissue staining CD-44 with ab157107 at 1:5000 dilution.



Immunoprecipitation - Anti-CD44 antibody (ab157107)

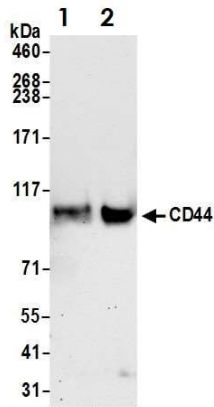
Immunoprecipitation of HeLa cells with:

Lane 1: Rabbit anti-CD44 recombinant monoclonal antibody

Lane 2: ab157107 lot A303-872A-3

Lane 3: ab157107 lot A303-872A-4

Lane 4: Control IgG



Western blot - Anti-CD44 antibody (ab157107)

All lanes : Anti-CD44 antibody (ab157107) at 0.1 µg/ml

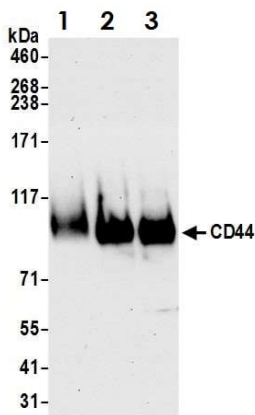
Lane 1 : TMCK-1 (mouse kidney epithelial cell line) whole cell lysate

Lane 2 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 81 kDa

Exposure time: 30 seconds



Western blot - Anti-CD44 antibody (ab157107)

All lanes : Anti-CD44 antibody (ab157107) at 0.04 µg/ml

Lane 1 : A-549 (human lung carcinoma cell line) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : U2OS (human bone osteosarcoma epithelial cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 81 kDa

Exposure time: 30 seconds

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