abcam

Product datasheet

Anti-htrA1 antibody ab113927

1 References 3 图像

概述

产品名称	Anti-htrA1抗体
描述	兔多克隆抗体to htrA1
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat, Rabbit, Cow, Chimpanzee, Macaque monkey, Gorilla, Orangutan
免疫原	Synthetic peptide conjugated to KLH derived from within residues 400 to the C-terminus of Human htrA1.参阅Abcam的专有抗源政策
阳性对照	In western blot, ab113927 gave a positive signal in the following whole cell lysates: MCF7; JEG3; HEK293; HepG2. In Immunohistochemistry, this antibody gave a positive signal in a formalin-fixed paraffin-embedded human placenta tissue section. This antibody gave a positive result in IF in the following Formaldehyde fixed cell line:HepG2.

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
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ab113927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
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能

Protease that regulate the availability of nsulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Represses signaling by TGF-beta family members.

组织特异性

Expressed in a variety of tissues, with strongest expression in placenta.

疾病相关

Variations in the promoter region of HTRA1 are the cause of susceptibility to age-related macular degeneration type 7 (ARMD7) [MIM:610149]. ARMD is the leading cause of vision loss and blindness among older individuals in the developed word. It is classified as either dry (nonneovascular) or wet (neovascular). ARMD7 is a wet form, in which new blood vessels form and break beneath the retina. This leakage causes permanent damage to surrounding retinal tissue, distorting and destroying central vision. Wet ARMD is more prevalent among Asians than Caucasians.
Defects in HTRA1 are the cause of cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy (CARASIL) [MIM:600142]. CARASIL is characterized by nonhypertensive cerebral small-vessel arteriopathy with subcortical infarcts, alopecia, and spondylosis, with an onset in early adulthood. On neuropathological examination, arteriosclerosis associated with intimal thickening and dense collagen fibers, loss of vascular smooth-muscle cells, and hyaline degeneration of the tunica media has been observed in cerebral small arteries.

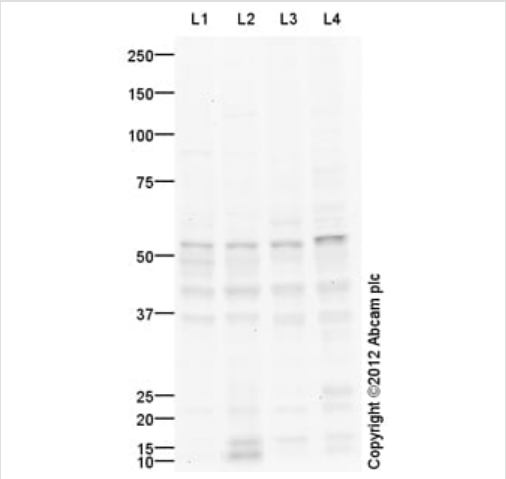
序列相似性

Belongs to the peptidase S1B family.
Contains 1 IGFBP N-terminal domain.
Contains 1 Kazal-like domain.
Contains 1 PDZ (DHR) domain.

细胞定位

Secreted.

图片



Western blot - Anti-htrA1 antibody (ab113927)

All lanes : Anti-htrA1 antibody (ab113927) at 1 µg/ml

Lane 1 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
Lane 2 : JEG-3 (Human placental choriocarcinoma cell line) Whole Cell Lysate
Lane 3 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate
Lane 4 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

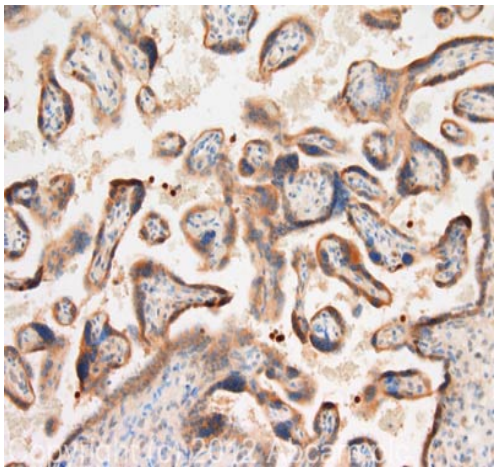
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

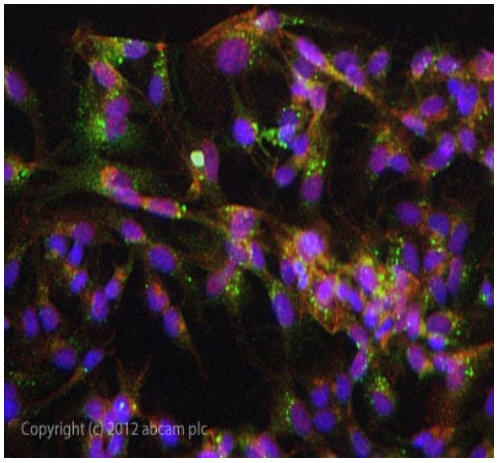
Predicted band size: 51 kDa
Observed band size: 51 kDa
Additional bands at: 36 kDa, 42 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-htrA1 antibody (ab113927)

IHC image of ab113927 staining in human placenta formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 2) for 20 mins. The section was then incubated with ab113927, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times



Immunocytochemistry/ Immunofluorescence - Anti-htrA1 antibody (ab113927)

ICC/IF image of ab113927 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab113927 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in formaldehyde fixed (4%, 10min) HeLa and MCF-7 cell types at 5ug/ml.

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