abcam

Product datasheet

Anti-Angiopoietin 1 antibody ab8451

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概述

产品名称	Anti-Angiopoietin 1抗体
描述	**兔多克隆抗体**to Angiopoietin 1
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IHC-P, WB, ELISA
种属反应性	**与反应:** Mouse, Human, Pig
免疫原	Synthetic peptide corresponding to Mouse Angiopoietin 1 aa 21-40 (N terminal). Sequence: CNQRRNPENGGRRYNRIQHGQ Database link: **O08538** Run BLAST with Run BLAST with

常规说明

Angiopoeitin-1 (Ang-1) and Antiopoietin-2 (Ang2) are important for development of the endothelium, by regulating tyrosine phosphorylation of the membrane receptor Tie-2/Tek. Ang-1 binding to Tie-2/Tek causes phosphorylation of the receptor. Ang-2 competes for this binding, and thus blocks receptor phosphorylation. Ang-1 has potential fibrinogen-like domain at the carboxy terminus and coiled-coil regions in the amino terminus. Ang-1 is prominently expressed in the myocardium of atrium and ventricle, mesenchymal and smooth muscle cells surrounding most blood vessels, and lung. In the adult, ANG-1 is also expressed in the heart and liver. To our knowledge, this is the first time that an Ang antibody recognises a band above 55 kD. This antibody (and the ang-2 antibody, **ab8452**) give a band at 75 kD which resembles the original size, because these are soluble highly glycosylated proteins, which should run higher than the calculated molecular weight of 55 kD.

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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
纯度	Whole antiserum
Primary antibody说明	Angiopoeitin-1 (Ang-1) and Antiopoietin-2 (Ang2) are important for development of the endothelium, by regulating tyrosine phosphorylation of the membrane receptor Tie-2/Tek. Ang-1 binding to Tie-2/Tek causes phosphorylation of the receptor. Ang-2 competes for this binding, and thus blocks receptor phosphorylation. Ang-1 has potential fibrinogen-like domain at the carboxy terminus and coiled-coil regions in the amino terminus. Ang-1 is prominently expressed in the myocardium of atrium and ventricle, mesenchymal and smooth muscle cells surrounding most blood vessels, and lung. In the adult, ANG-1 is also expressed in the heart and liver. To our knowledge, this is the first time that an Ang antibody recognises a band above 55 kD. This antibody (and the ang-2 antibody, **ab8452**) give a band at 75 kD which resembles the original size, because these are soluble highly glycosylated proteins, which should run higher than the calculated molecular weight of 55 kD.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab8451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。

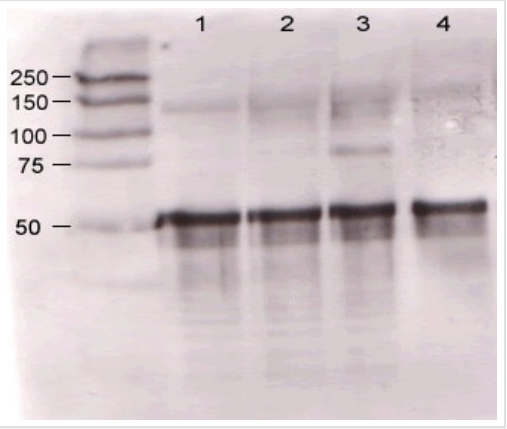
应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★☆ (1)	1/500. Detects a band of approximately 57 kDa. Using this antiserum with cell supernatants may result in high background due to other components in the serum. This can be alleviated by immunoprecipitating the antibody:antigen complex before detection, or precipitation using soluble Tie2. These methods result in a clean, strong signal. Both Ang-1 and Ang-2 proteins have predicted MW of 57 kDa and appear on blots close to
ELISA		Use at an assay dependent concentration.

靶标

功能	Binds and activates TIE2 receptor by inducing its tyrosine phosphorylation. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. Mediates blood vessel maturation/stability. It may play an important role in the heart early development.

序列相似性	Contains 1 fibrinogen C-terminal domain.
翻译后修饰	Glycosylated.
细胞定位	Secreted.

图片



Western blot - Anti-Angiopoietin 1 antibody (ab8451)

This image is courtesy of Marion Scharpfenecker 2002

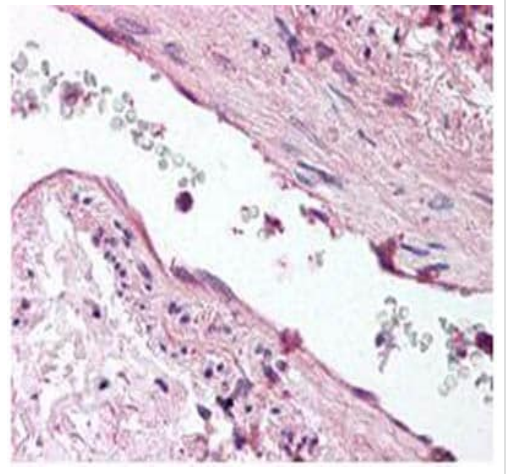
Supernatants of mouse-angiopoietin-expressing endothelial cells.

Lane 1 - wt endothelial cell

Lane 2 - mouse Ang-1 (clone 1-8) expressing cells

Lane 3 - mouse Ang-1 (clone 1-15) expressing cells

Lane 4 - mouse Ang-2 (clone 2-9) expressing cells



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Angiopoietin 1 antibody (ab8451)

ab8451 was diluted 1:500 to detect Angiopoietin 1 in human lung tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

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