

### Anti-Angiopoietin 1 antibody ab8451

★★★★☆ **3 Abreviews** **53 References** 画像数 **2**

#### 製品の概要

製品名	Anti-Angiopoietin 1 antibody
製品の詳細	Rabbit polyclonal to Angiopoietin 1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, IHC-P, WB, ELISA
種交差性	<b>交差種:</b> Mouse, Human, Pig
免疫原	Synthetic peptide corresponding to Mouse Angiopoietin 1 aa 21-40 (N terminal). Sequence: CNQRRNPENGRRYNRIQHGG

Database link: [O08538](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

#### 特記事項

Angiopoietin-1 (Ang-1) and Angiopoietin-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

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
精製度	Whole antiserum
一次抗体 備考	Angiopoeitin-1 (Ang-1) and Antiopoeitin-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, <b>ab8452</b> ) 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.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab8451の使用に適用されます  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

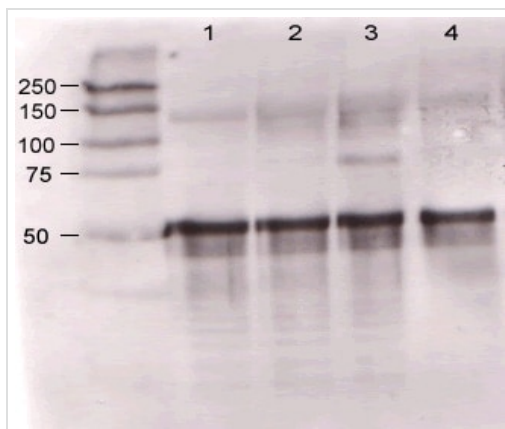
アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (1)	1/500. Detects a band of approximately 57 kDa. Using this antiserum with cell supernatants may result in high background due to other components in the serum. 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.

## ターゲット情報

機能	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.
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配列類似性	Contains 1 fibrinogen C-terminal domain.
翻訳後修飾	Glycosylated.
細胞内局在	Secreted.

## 画像



Western blot - Anti-Angiopoietin 1 antibody (ab8451)

This image is courtesy of Marion Scharpfenecker 2002

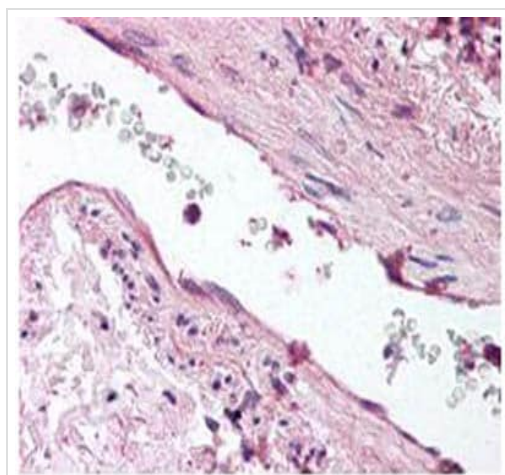
Supernatants of mouse-angiopoietin-expressing endothelial cells.

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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