

### Anti-Midkine antibody [EP1143Y] ab52637

KO 評価済 リコンビナント RabMAb

★★★★☆ 1 Abreviews 21 References 画像数 11

#### 製品の概要

製品名	Anti-Midkine antibody [EP1143Y]
製品の詳細	Rabbit monoclonal [EP1143Y] to Midkine
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Human, Recombinant fragment
免疫原	Synthetic peptide corresponding to Human Midkine aa 100 to the C-terminus (C terminal).
ポジティブ・コントロール	Human liver carcinoma; Human pancreatic carcinoma; HeLa cells; SH-SY5Y (Human neuroblastoma cell line from bone marrow).
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
バッファー	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名

EP1143Y

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ab52637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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa). <b>For unpurified use at 1/500.</b>
IP		1/20. <b>For unpurified use at 1/30.</b>
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100. <b>For unpurified use at 1/250 - 1/500.</b>

ターゲット情報

機能

Has heparin binding activity, and growth promoting activity. Involved in neointima formation after arterial injury, possibly by mediating leukocyte recruitment. Also involved in early fetal adrenal gland development.

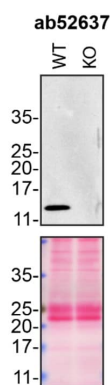
配列類似性

Belongs to the pleiotrophin family.

細胞内局在

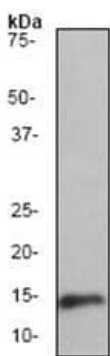
Secreted.

画像



Western blot - Anti-Midkine antibody [EP1143Y]  
(ab52637)

ab52637 was shown to react with MDK in wild-type HAP1 cells in Western blot with loss of signal observed in a MDK knockout cell line. Wild-type HAP1 and MDK knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab52637 overnight at 4 °C at a 1/500 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.



Western blot - Anti-Midkine antibody [EP1143Y]  
(ab52637)

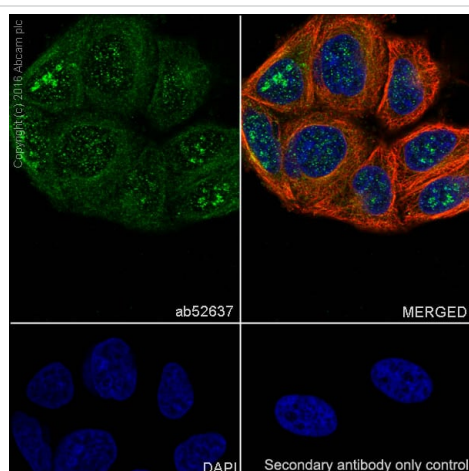
Anti-Midkine antibody [EP1143Y] (ab52637) at 1/500 dilution  
(unpurified) + Recombinant protein at 0.001 µg

### Secondary

Goat anti-rabbit HRP labeled at 1/2000 dilution

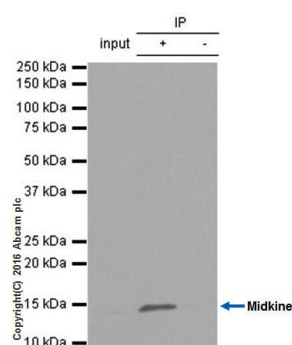
**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Midkine antibody [EP1143Y] (ab52637)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Midkine with purified ab52637 at 1:100 dilution (10.5µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-Midkine antibody  
[EP1143Y] (ab52637)

ab52637 (purified) at 1:20 dilution (2ug) immunoprecipitating Midkine in SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate.

**Lane 1 (input):** SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate 10ug

**Lane 2 (+):** ab52637 & SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of ab52637 in SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:5000 dilution.

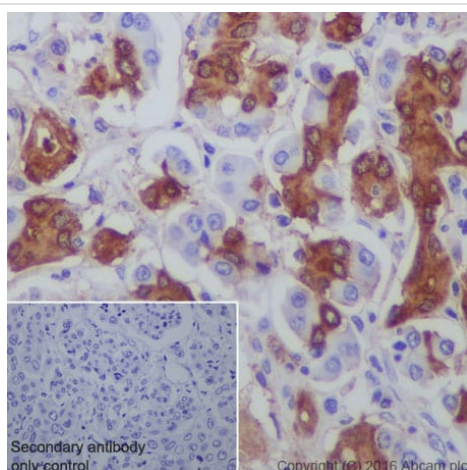
Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Midkine antibody  
[EP1143Y] (ab52637)

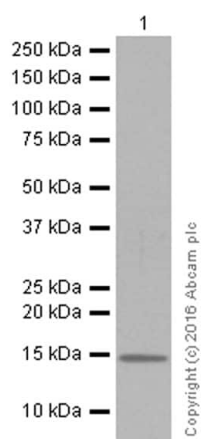
Human liver carcinoma stained with unpurified ab52637 at 1/100 - 1/250 dilution

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-Midkine antibody [EP1143Y]  
(ab52637)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human pancreatic carcinoma tissue sections labeling Midkine with purified ab52637 at 1:50 dilution (2.1 µg/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin. **ab97051** Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1:500 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-Midkine antibody [EP1143Y] (ab52637)

Anti-Midkine antibody [EP1143Y] (ab52637) at 1/1000 dilution (purified) + SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates at 15 µg

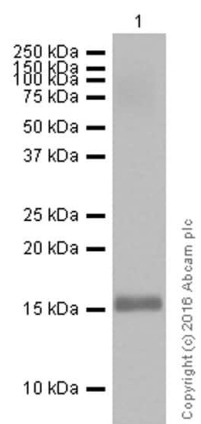
#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa

Blocking and diluting: 5% NFDM/TBST



Western blot - Anti-Midkine antibody [EP1143Y] (ab52637)

Anti-Midkine antibody [EP1143Y] (ab52637) at 1/10000 dilution (purified) + Recombinant Human Midkine protein ([ab49848](#)) at 15 µg

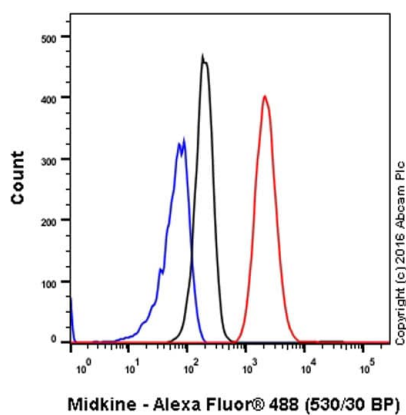
#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 16 kDa

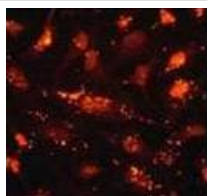
**Observed band size:** 16 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Flow Cytometry (Intracellular) - Anti-Midkine antibody [EP1143Y] (ab52637)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Midkine with purified ab52637 at 1/250 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-Midkine antibody [EP1143Y] (ab52637)

HeLa cells stained with unpurified ab52637 at 1/250 - 1/500 dilution

#### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Midkine antibody [EP1143Y] (ab52637)

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

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