Product datasheet

Anti-Midkine antibody [EP1143Y] ab52637

Overview

Product name: Anti-Midkine antibody [EP1143Y]
Description: Rabbit monoclonal [EP1143Y] to Midkine
Host species: Rabbit
Tested applications: Suitable for: WB, IP, Flow Cyt, IHC-P, ICC/IF
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide corresponding to Human Midkine aa 100 to the C-terminus (C terminal).
Positive control: Human liver carcinoma; Human pancreatic carcinoma; HeLa cells; SH-SY5Y (Human neuroblastoma cell line from bone marrow).

General notes:
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: 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.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EP1143Y
Isotype: IgG

Function:
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.

Sequence similarities:
Belongs to the pleiotrophin family.

Cellular localization:
Secreted.

Applications

Our Abpromise guarantee covers the use of ab52637 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/1000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa). For unpurified use at 1/500.</td>
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<tr>
<td>IP</td>
<td>1/20.</td>
<td>For unpurified use at 1/30.</td>
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<tr>
<td>Flow Cyt</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
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<tr>
<td>IHC-P</td>
<td>1/50.</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>1/100.</td>
<td>For unpurified use at 1/250 - 1/500.</td>
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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.

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

ab52637 (purified) at 1:20 dilution (2μg) 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 10μg

**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 secondary antibody (HRP) (ab131366) was used as the secondary antibody 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
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.

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
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 analysis of HeLa (human cervix adenocarcinoma) cells labeling Midkine with purified ab52637 at 1/250 dilution (10µg/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.

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

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