

Product datasheet

Anti-Entactin/NID antibody [EPR22414-125] **ab254325**

Recombinant **RabMAb**

★★★★★ [1 Abreviews](#) [1 References](#) [8 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Entactin/NID antibody [EPR22414-125] |
| Description | Rabbit monoclonal [EPR22414-125] to Entactin/NID |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P, IHC-Fr Unsuitable for: IP |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Recombinant human Entactin/NID protein (aa29 -1114); Human kidney, skeletal muscle, lung and placenta tissue lysate; Mouse heart, lung, skeletal muscle, kidney tissue lysate. IHC-P: Mouse cardiac tissue and rat cardiac muscle tissue. IHC-Fr: Mouse and rat heart tissue. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

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 long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, PBS |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR22414-125 |

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab254325 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|--|
| WB | | 1/1000. Predicted molecular weight: 136 kDa. |
| IHC-P | ★★★★★ (1) | 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC recommended for Mouse and Rat only. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. |
| IHC-Fr | | 1/500. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20) |

Application notes

Is unsuitable for IP.

Target

Function

Sulfated glycoprotein widely distributed in basement membranes and tightly associated with laminin. Also binds to collagen IV and perlecan. It probably has a role in cell-extracellular matrix interactions.

Sequence similarities

Contains 6 EGF-like domains.
Contains 4 LDL-receptor class B repeats.
Contains 1 NIDO domain.
Contains 1 nidogen G2 beta-barrel domain.
Contains 1 thyroglobulin type-1 domain.

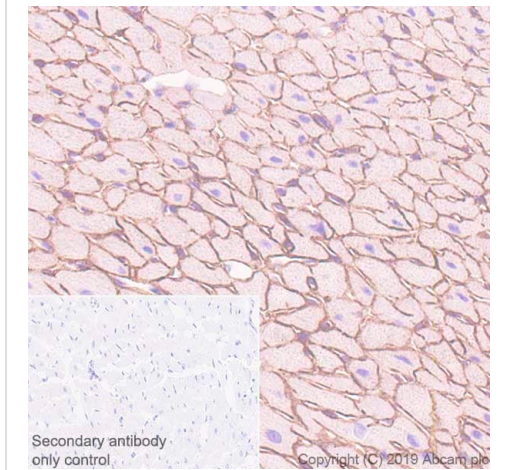
Post-translational modifications

N- and O-glycosylated.

Cellular localization

Secreted > extracellular space > extracellular matrix > basement membrane.

Images

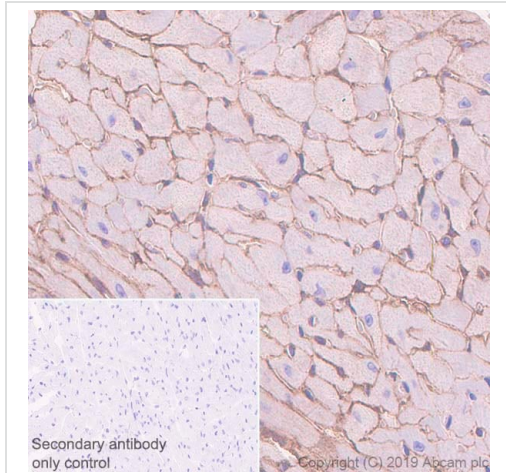


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Entactin/NID antibody [EPR22414-125] (ab254325)

Immunohistochemical analysis of paraffin-embedded rat cardiac muscle tissue labeling Entactin/NID with ab254325 at 1/1000 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on basement membrane of rat cardiac muscle (PMID: 10958695). The section was incubated with ab254325 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

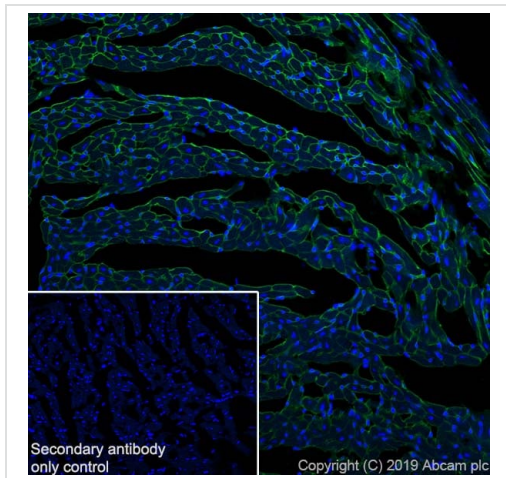


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Entactin/NID antibody [EPR22414-125] (ab254325)

Immunohistochemical analysis of paraffin-embedded mouse cardiac muscle tissue labeling Entactin/NID with ab254325 at 1/1000 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on basement membrane of mouse cardiac muscle (PMID: 10958695). The section was incubated with ab254325 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

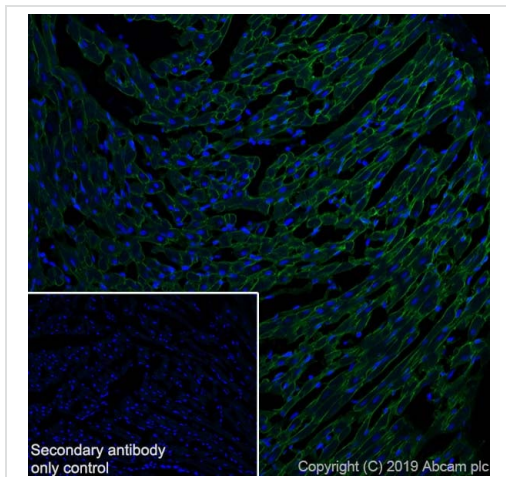
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Frozen sections) - Anti-Entactin/NID antibody [EPR22414-125] (ab254325)

Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilized frozen mouse heart tissue labeling Entactin/NID with ab254325 at 1/500 dilution (green), followed by an AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. Positive staining on the basement membrane of cardiac muscle (PMID: 12215539) is observed. The nuclear counterstain is DAPI (Blue).

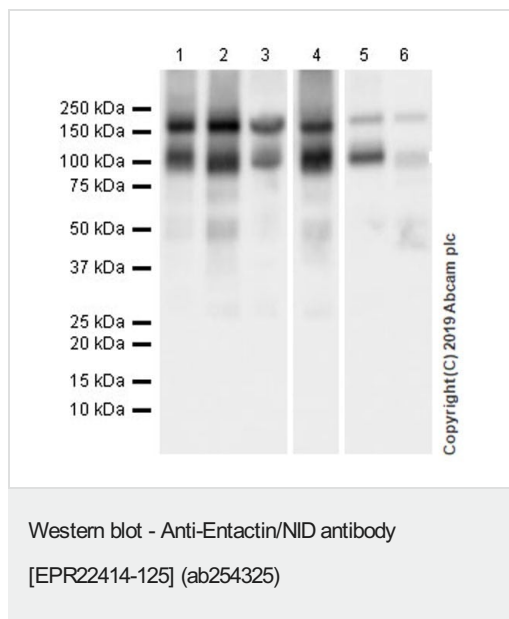
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is an AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution.



Immunohistochemistry (Frozen sections) - Anti-Entactin/NID antibody [EPR22414-125] (ab254325)

Immunohistochemical analysis of 4% Paraformaldehyde fixed, 0.2% Triton X-100 permeabilized frozen rat heart tissue labeling Entactin/NID with ab254325 at 1/500 dilution (green), followed by an AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. Positive staining on the basement membrane of cardiac muscle (PMID: 12215539) is observed. The nuclear counterstain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is an AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution.



All lanes : Anti-Entactin/NID antibody [EPR22414-125]
(ab254325) at 1/1000 dilution

Lane 1 : Mouse heart tissue lysate

Lane 2 : Mouse lung tissue lysate

Lane 3 : Mouse skeletal muscle tissue lysate

Lane 4 : Mouse kidney tissue lysate

Lane 5 : Rat lung tissue lysate

Lane 6 : Rat skeletal muscle tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

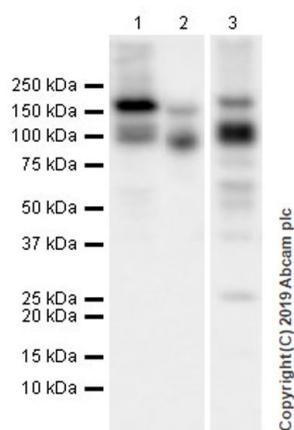
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at
1/100000 dilution

Predicted band size: 136 kDa

Exposure time: 3 seconds

Blocking/diluting buffer and concentration: 5% NFDM/TBST

The expression profile/ molecular weight observed is consistent
with what has been described in the literature
(PMID:3084254,12215539, 22952693).



Western blot - Anti-Entactin/NID antibody
[EPR22414-125] (ab254325)

All lanes : Anti-Entactin/NID antibody [EPR22414-125]
(ab254325) at 1/1000 dilution

Lane 1 : Human kidney tissue lysate

Lane 2 : Human skeletal muscle tissue lysate

Lane 3 : Human placenta tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at
1/1000 dilution

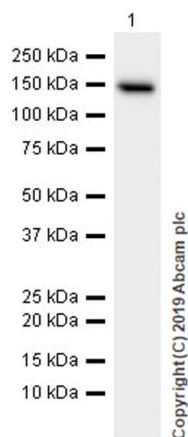
Predicted band size: 136 kDa

Observed band size: 160, 100 kDa

Exposure time: 8 seconds

Blocking/diluting buffer and concentration: 5% NFDM/TBST

The expression profile/ molecular weight observed is consistent
with what has been described in the literature (PMID:3084254,
12215539, 22952693).



Western blot - Anti-Entactin/NID antibody
[EPR22414-125] (ab254325)

Anti-Entactin/NID antibody [EPR22414-125] (ab254325) at 1/1000 dilution + Recombinant human Entactin/NID protein (aa29 -1114)
20 ng

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

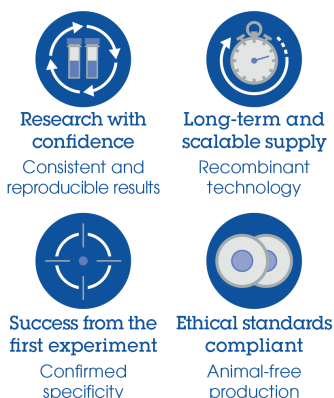
Predicted band size: 136 kDa

Observed band size: 130 kDa

Blocking/diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds.

Why choose a recombinant antibody?



Anti-Entactin/NID antibody [EPR22414-125]
(ab254325)

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