

Product datasheet

Anti-DCTN3 antibody [EPR5097] ab124674

Recombinant RabMAb

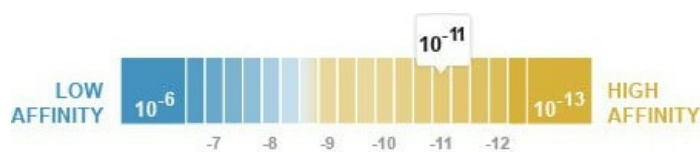
★★★★★ 6 Abreviews 9 Images

Overview

Product name	Anti-DCTN3 antibody [EPR5097]
Description	Rabbit monoclonal [EPR5097] to DCTN3
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human DCTN3 aa 100-200. The exact sequence is proprietary. Database link: O75935
Positive control	293T, HeLa, BxPC 3, SH-SY5Y and mouse and rat muscle lysates; Human breast tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 5.58 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS
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Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5097
Isotype	IgG

Applications

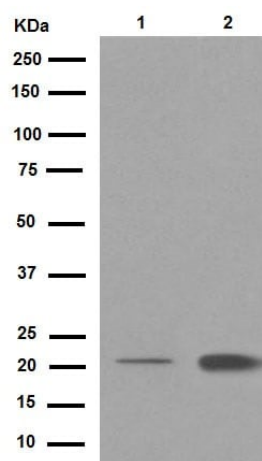
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124674 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	1/2000 - 1/10000.
WB	★★★★★ (4)	1/2000 - 1/10000. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .

Target

Function	Together with dynein may be involved in spindle assembly and cytokinesis.
Tissue specificity	Ubiquitously expressed. Highly expressed in muscle and pancreas and detected at lower levels in brain.
Sequence similarities	Belongs to the dynactin subunit 3 family.
Cellular localization	Cytoplasm. Cytoplasm > cytoskeleton > centrosome. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > spindle. Cleavage furrow. Midbody. Localizes to punctate cytoplasmic structures and to the centrosome during interphase, and to kinetochores and to spindle poles throughout mitosis. Colocalizes with dynein to the cleavage furrow and to midbody of dividing cells.

Images



Western blot - Anti-DCTN3 antibody [EPR5097]
(ab124674)

All lanes : Anti-DCTN3 antibody [EPR5097] (ab124674) at
1/10000 dilution (purified)

Lane 1 : 293T cell lysate

Lane 2 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

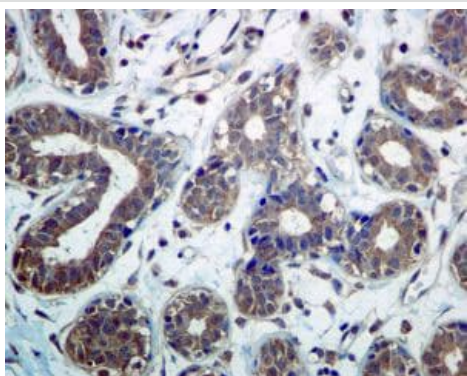
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

Blocking buffer: 5% NFDM/TBST

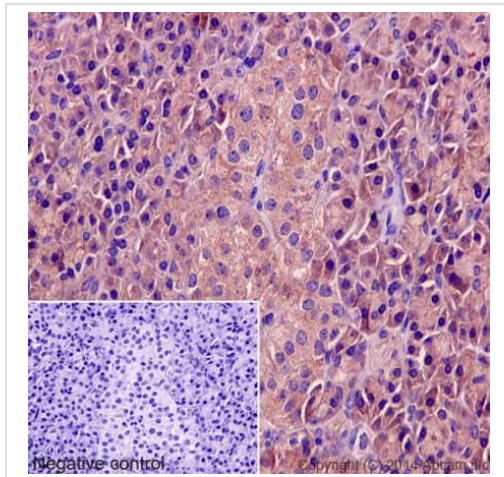
Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-DCTN3 antibody
[EPR5097] (ab124674)

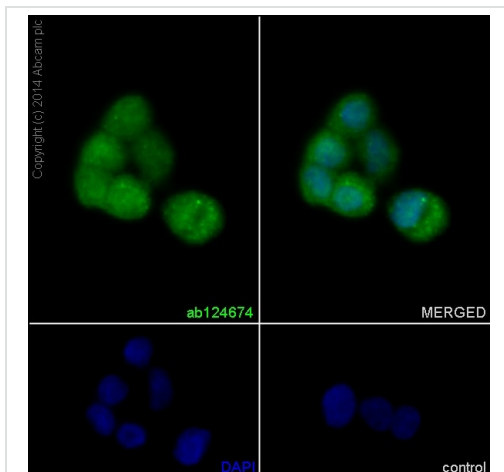
Immunohistochemical staining of DCTN3 in paraffin embedded
human breast tissue by unpurified ab124674 at 1/100 dilution.

Perform heat mediated antigen retrieval via the pressure cooker
method before commencing with IHC staining protocol.



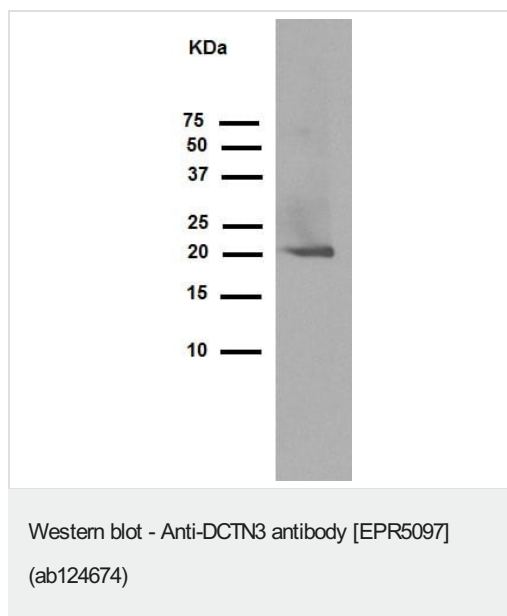
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCTN3 antibody [EPR5097] (ab124674)

Immunohistochemical staining of paraffin embedded human pancreas with purified ab124674 at a working dilution of 1 in 100. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-DCTN3 antibody [EPR5097] (ab124674)

Immunofluorescence staining of BxPC-3 cells with purified ab124674 at a working dilution of 1 in 100, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti rabbit (**ab150077**), used at a dilution of 1 in 500. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, purified ab124674 was used at a dilution of 1/200 followed by an Alexa Fluor® 594 goat anti-mouse antibody (**ab15120**) at a dilution of 1/500.



Anti-DCTN3 antibody [EPR5097] (ab124674) at 1/10000 dilution
(purified) + Rat muscle at 20 µg

Secondary

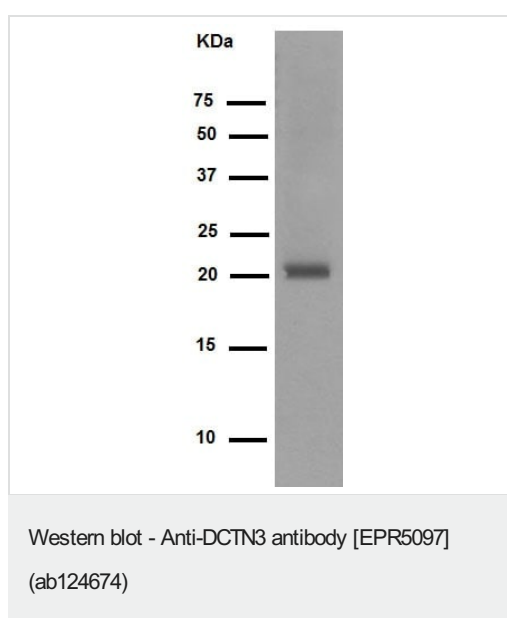
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Anti-DCTN3 antibody [EPR5097] (ab124674) at 1/2000 dilution
(purified) + Mouse muscle at 10 µg

Secondary

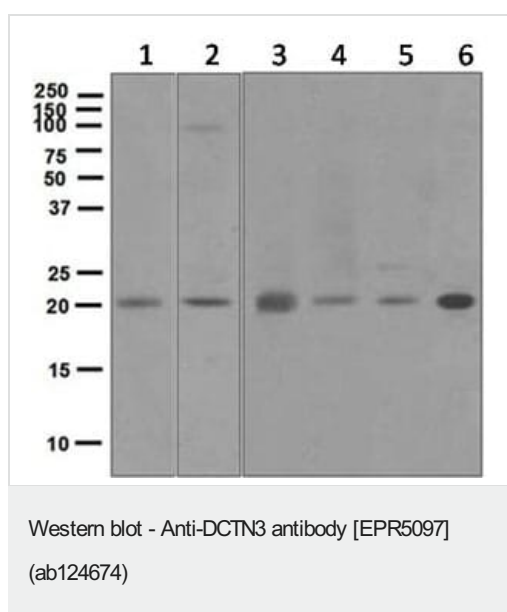
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



All lanes : Anti-DCTN3 antibody [EPR5097] (ab124674) at 1/1000 dilution (unpurified)

Lane 1 : 293T cell lysates

Lane 2 : Mouse muscle lysates

Lane 3 : HeLa cell lysates

Lane 4 : BxPC 3 cell lysates

Lane 5 : SH-SY5Y cell lysates

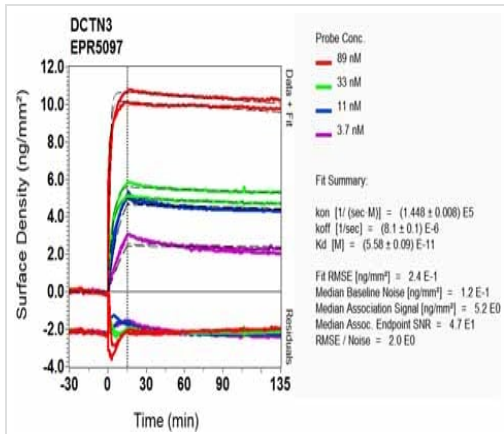
Lane 6 : Rat muscle lysates

Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1-3 & 5-6 : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 21 kDa



SPR Scanning - Anti-DCTN3 antibody [EPR5097]
(ab124674)

Equilibrium dissociation constant (K_D)

[Learn more about \$K_D\$](#)

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Anti-DCTN3 antibody [EPR5097] (ab124674)

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