


Product datasheet

Anti-Vimentin (phospho S39) antibody [EP1069Y] ab52942

Recombinant RabMAb

★★★★★ 1 Abreviews 8 References 4 Images

Overview

Product name	Anti-Vimentin (phospho S39) antibody [EP1069Y]
Description	Rabbit monoclonal [EP1069Y] to Vimentin (phospho S39)
Host species	Rabbit
Tested applications	Suitable for: WB, Dot blot Unsuitable for: Flow Cyt, IHC-Fr, IHC-P or IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa cell lysate treated with Calyculin A.
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.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 99% Tissue culture supernatant, 0.1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1069Y

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab52942 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 - 1/200000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
Dot blot		1/1000.

Application notes

Is unsuitable for Flow Cyt, IHC-Fr, IHC-P or IP.

Target

Function

Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.

Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.

Tissue specificity

Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

Involvement in disease

Cataract 30

Sequence similarities

Belongs to the intermediate filament family.

Domain

The central alpha-helical coiled-coil rod region mediates elementary homodimerization.

The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex.

Post-translational modifications

Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nestin (By similarity). One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PKN1 inhibits the formation of filaments.

Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cytoplasm. Phosphorylated by STK33.

O-glycosylated during cytokinesis at sites identical or close to phosphorylation sites, this interferes with the phosphorylation status.

S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

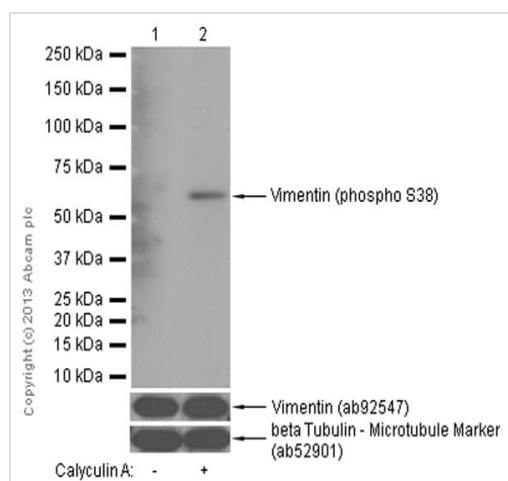
Cellular localization

Cytoplasm.

Form

Vimentin is found in connective tissue and in the cytoskeleton.

Images



Western blot - Anti-Vimentin (phospho S39)
antibody [EP1069Y] (ab52942)

All lanes : Anti-Vimentin (phospho S39) antibody [EP1069Y]
(ab52942) at 1/1000000 dilution

Lane 1 : HeLa whole cell lysate - untreated

Lane 2 : HeLa whole cell lysate - treated with Calyculin A

Lysates/proteins at 10 µg per lane.

Secondary

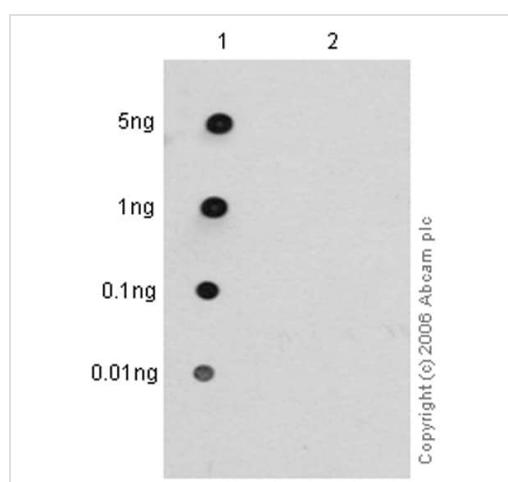
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at
1/1000 dilution

Predicted band size: 54 kDa

Observed band size: 54 kDa

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.

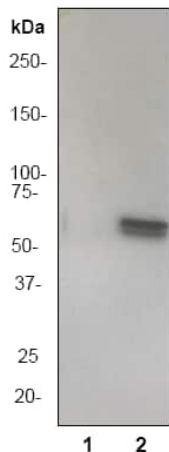


Dot Blot - Anti-Vimentin (phospho S39) antibody
[EP1069Y] (ab52942)

Dot blot analysis of Vimentin (pS39) peptide (Lane 1) and Vimentin non-phospho peptide (Lane 2) labelling Vimentin (phospho S39) with ab52942 at a dilution of 1/1000. A Peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody at a dilution of 1/2500.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.



Western blot - Anti-Vimentin (phospho S39)
antibody [EP1069Y] (ab52942)

All lanes : Anti-Vimentin (phospho S39) antibody [EP1069Y]
(ab52942) at 1/200000 dilution

Lane 1 : HeLa cell lysate untreated

Lane 2 : HeLa cell lysate Calyculin A treated

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 54 kDa

Observed band size: 54 kDa

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-Vimentin (phospho S39) antibody [EP1069Y]
(ab52942)

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

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