

Anti-Vimentin (phospho S73) antibody [EP1070Y] ab52944

RabMAb

4 References **画像数 6**

製品の概要

製品名	Anti-Vimentin (phospho S73) antibody [EP1070Y]
製品の詳細	Rabbit monoclonal [EP1070Y] to Vimentin (phospho S73)
由来種	Rabbit
アプリケーション	適用あり: WB, IP, Dot blot 適用なし: ICC/IF or IHC-P
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa; NIH/3T3; C6 lysates. IP: HeLa cells (untreated and Calyculin A treated).
特記事項	<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> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP1070Y

アイソタイプlgG

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ab52944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。

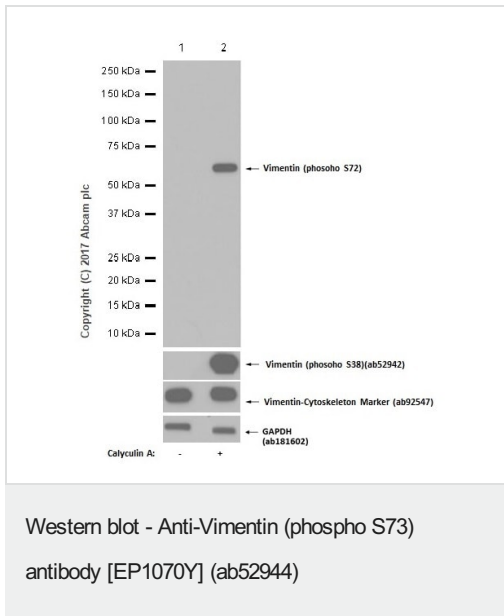
アプリケーション	Abreviews	特記事項
WB		1/10000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IP		1/20. For unpurified use at 1:40.
Dot blot		Use at an assay dependent concentration.

追加情報 Is unsuitable for ICC/IF or IHC-P.

ターゲット情報

機能	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.
組織特異性	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.
関連疾患	Cataract 30
配列類似性	Belongs to the intermediate filament family.
ドメイン	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.
翻訳後修飾	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.
細胞内局在	Cytoplasm.
製品の状態	Vimentin is found in connective tissue and in the cytoskeleton.

画像



All lanes : Anti-Vimentin (phospho S73) antibody [EP1070Y] (ab52944) at 1/10000 dilution (purified)

Lane 1 : C6 (Rat glial tumor cell line) whole cell lysate, untreated

Lane 2 : C6 (Rat glial tumor glial cell) starved for 24 hours, then treated with 100ng Calyculin A for 60 minutes, whole cell lysate

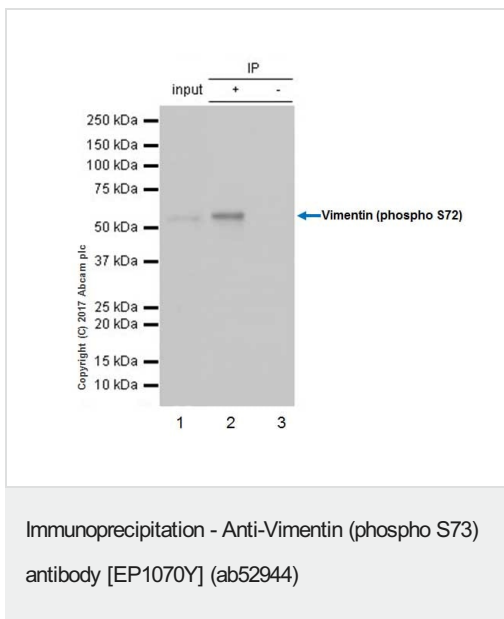
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 54 kDa

Blocking and diluting buffer : 5% NFDM/TBST



ab52944 (purified) at 1:20 dilution (2µg) immunoprecipitating

Vimentin in HeLa starved 24 hours, then treated with 100nM Calyculin A for 30 minutes whole cell lysate.

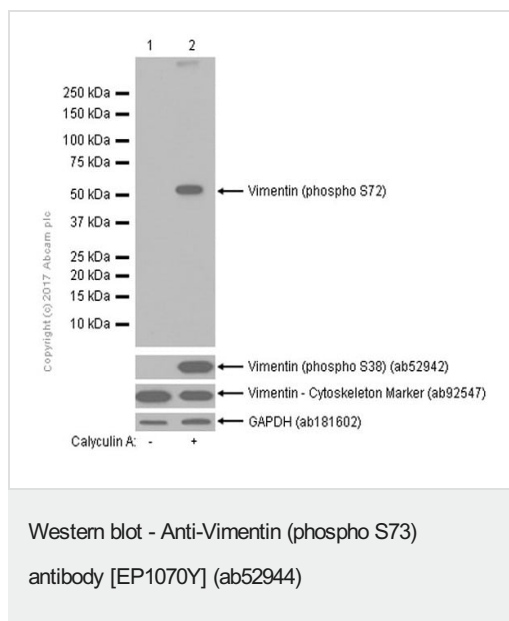
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) starved 24 hours, then treated with 100nM Calyculin A for 30 minutes whole cell lysate 10ug

Lane 2 (+): ab52944 & HeLa starved 24 hours, then treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab52944 in HeLa starved 24 hours, then treated with 100nM Calyculin A for 30 minutes whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



All lanes : Anti-Vimentin (phospho S73) antibody [EP1070Y] (ab52944) at 1/10000 dilution (purified)

Lane 1 : Untreated with HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) starved for 24 hours, then treated with 100nM Calyculin A for 30 minutes whole cell lysates

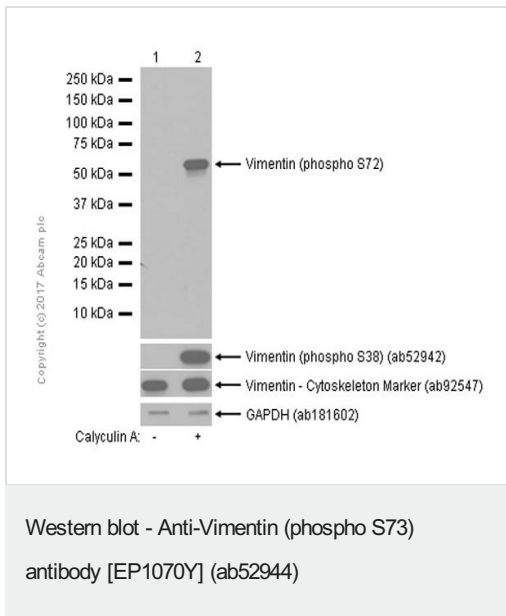
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 54 kDa

Blocking and diluting buffer : 5% NFDM/TBST



All lanes : Anti-Vimentin (phospho S73) antibody [EP1070Y] (ab52944) at 1/10000 dilution (purified)

Lane 1 : Untreated with NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

Lane 2 : NIH/3T3 (Mouse embryonic fibroblast) treated with 100ng/ml Calyculin A for 30 minutes whole cell lysates

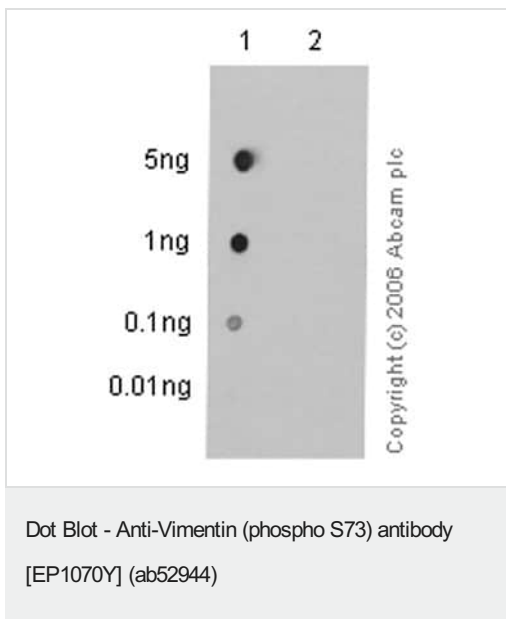
Lysates/proteins at 15 µg per lane.

Secondary

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

Predicted band size: 54 kDa

Blocking and diluting buffer : 5% NFDM/TBST



Primary antibody dilution: 1/1000

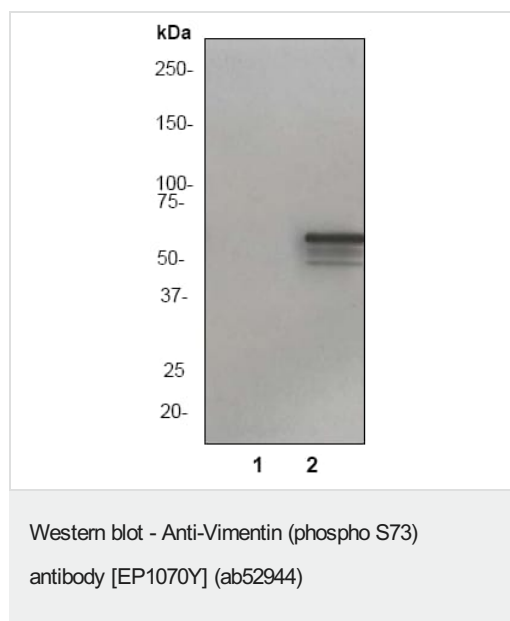
Secondary antibody: goat anti-rabbit IgG, (H+L), peroxidase conjugated (1/2500 dilution)

Blocking & diluting buffer: 5% NFDM/TBST

Lane 1 sample: Vimentin (pS72) phospho peptide

Lane 2 sample: Vimentin non-phospho peptide

Exposure time: 3 minutes



All lanes : Anti-Vimentin (phospho S73) antibody [EP1070Y] (ab52944) at 1/1000000 dilution

Lane 1 : HeLa cell lysate untreated

Lane 2 : HeLa cell lysate treated with Calyculin A

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 54 kDa

Observed band size: 54 kDa

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