

Product datasheet

Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] ab151704

Recombinant RabMAb

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Overview

Product name	Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)]
Description	Rabbit monoclonal [EPR1053(N)(B)] to TIE1 (phospho Y1007) + TIE2 (phospho Y992)
Host species	Rabbit
Specificity	ab151704 only detects TIE1 phosphorylated at tyrosine 1007 and TIE2 phosphorylated at tyrosine 992.
Tested applications	Suitable for: WB, ICC/IF, Dot blot Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HUVEC cell lysate treated with pervanadate. ICC/IF: HUVEC cells treated with pervanadate.
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture</p>

	supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR1053(N)(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab151704 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

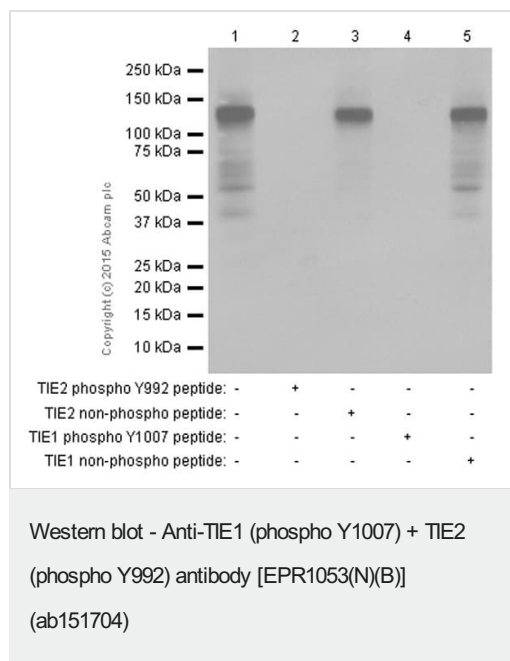
Application	Abreviews	Notes
WB		1/10000 - 1/50000. Predicted molecular weight: 125 kDa.
ICC/IF		1/250 - 1/500.
Dot blot		1/1000.

Application notes Is unsuitable for IHC-P or IP.

Target

Cellular localization TIE1: Cell membrane. TIE2: Cell membrane. Cell junction. Cell junction, focal adhesion. Cytoplasm, cytoskeleton. Secreted. Recruited to cell-cell contacts in quiescent endothelial cells. Colocalizes with the actin cytoskeleton and at actin stress fibers during cell spreading. Recruited to the lower surface of migrating cells, especially the rear end of the cell. Proteolytic processing gives rise to a soluble extracellular domain that is secreted.

Images



All lanes : Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] (ab151704) at 1/100000 dilution

Lane 1 : HUVEC cell lysate treated with pervanadate

Lane 2 : HUVEC cell lysate treated with pervanadate with TIE2 (phospho Y992) peptide

Lane 3 : HUVEC cell lysate treated with pervanadate with TIE2 unmodified peptide

Lane 4 : HUVEC cell lysate treated with pervanadate with TIE1 (phospho Y1007) peptide

Lane 5 : HUVEC cell lysate treated with pervanadate with TIE1 unmodified peptide

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/1000000 dilution (HRP goat anti-rabbit IgG (H+L))

Predicted band size: 125 kDa

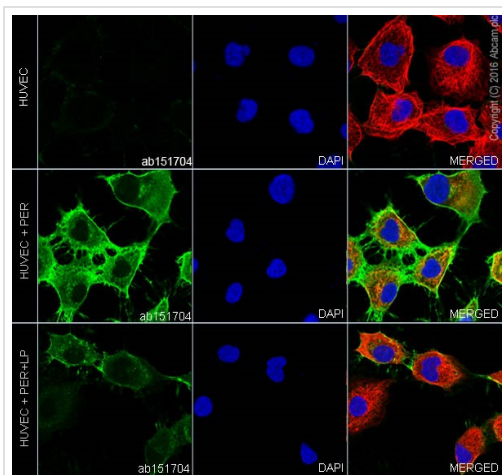
Observed band size: 125 kDa

Exposure time: 5 seconds

Blocking buffer: 5% BSA/TBST

Dilution buffer: 5% BSA /TBST for primary antibody, 5%

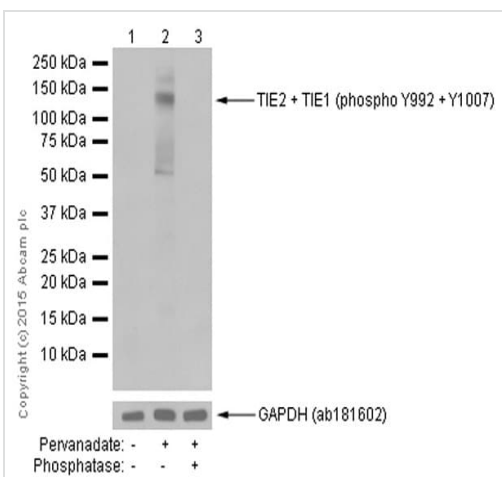
NFDM/TBST for secondary antibody



Immunocytochemistry/ Immunofluorescence - Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] (ab151704)

Immunocytochemistry/Immunofluorescence analysis of HUVEC () cells labelling TIE2 + TIE1 (phospho Y992 + Y1007) with ab151704 at 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton-X. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counter-stained with **ab7291** anti-Tubulin (mouse mAb) at a dilution of 1/500 and **ab150120** AlexaFluor®594 Goat anti-Mouse secondary at 1/1000. Nuclei were counterstained with DAPI (blue).

Confocal image showing increased cytoplasmic staining after PER (Pervanadate, 1mM, 30min) treatment on HUVEC cells. The LP treatment decreased the PER induced cytoplasmic staining.



Western blot - Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] (ab151704)

All lanes : Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] (ab151704) at 1/100000 dilution

Lane 1 : Untreated HUVEC whole cell lysates

Lane 2 : HUVEC treated with Pervanadate whole cell lysates

Lane 3 : HUVEC treated with Pervanadate whole cell lysates, then the membrane was incubated with phosphatase.

Lysates/proteins at 10 µg per lane.

Secondary

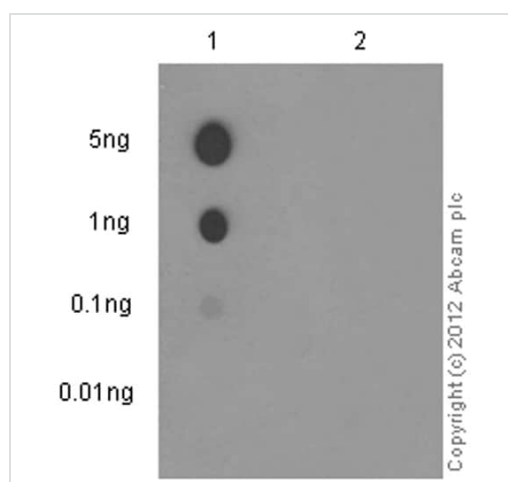
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 125 kDa

Observed band size: 125 kDa

Exposure time: 10 seconds

Blocking/Diluting buffer 5% NFDM/TBST



Dot blot analysis of TIE2 (pY992) phospho peptide (lane 1) and TIE2 non-phospho peptide (lane 2) labelling TIE2 (phospho Y992) with ab151704 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/2500).

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 10 seconds.

Dot Blot - Anti-TIE1 (phospho Y1007) + TIE2 (phospho Y992) antibody [EPR1053(N)(B)] (ab151704)

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

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