

Product datasheet

Anti-Vitronectin/S-Protein antibody [EP873Y] ab45139

Recombinant RabMAb

[21 References](#) [4 Images](#)

Overview

Product name	Anti-Vitronectin/S-Protein antibody [EP873Y]
Description	Rabbit monoclonal [EP873Y] to Vitronectin/S-Protein
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human liver tissue. WB: Human serum tissue lysate ICC/IF: HepG2 cells
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP873Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab45139 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		1/2000 - 1/10000. Detects a band of approximately 75 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/100.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function Vitronectin is a cell adhesion and spreading factor found in serum and tissues. Vitronectin interact with glycosaminoglycans and proteoglycans. Is recognized by certain members of the integrin family and serves as a cell-to-substrate adhesion molecule. Inhibitor of the membrane-damaging effect of the terminal cytolytic complement pathway.
Somatomedin-B is a growth hormone-dependent serum factor with protease-inhibiting activity.

Tissue specificity Plasma.

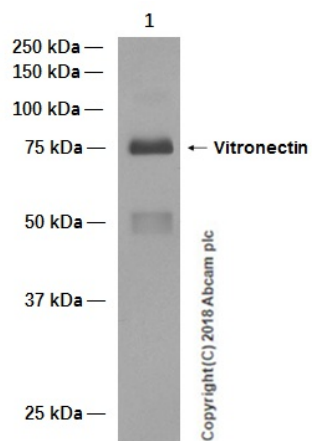
Sequence similarities Contains 4 hemopexin repeats.
Contains 1 SMB (somatomedin-B) domain.

Domain The SMB domain mediates interaction with SERPINE1/PAI1. The heparin-binding domain mediates interaction with insulin.

Post-translational modifications Sulfated on 2 tyrosine residues.
N- and O-glycosylated.
Phosphorylation on Thr-69 and Thr-76 favors cell adhesion and spreading.
It has been suggested that the active SMB domain may be permitted considerable disulfide bond heterogeneity or variability, thus two alternate disulfide patterns based on 3D structures are described with 1 disulfide bond conserved in both.
Phosphorylation sites are present in the extracellular medium.

Cellular localization Secreted, extracellular space.

Images



Western blot - Anti-Vitronectin/S-Protein antibody [EP873Y] (ab45139)

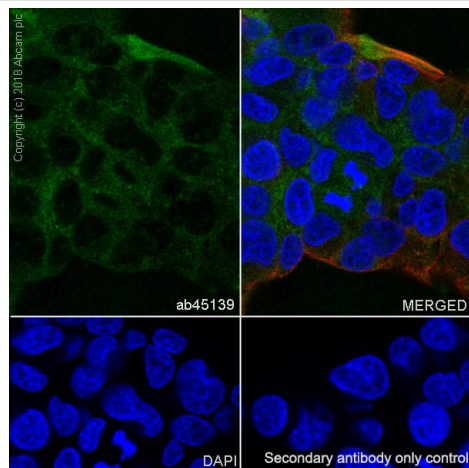
Anti-Vitronectin/S-Protein antibody [EP873Y] (ab45139) at 1/2000 dilution + Human serum tissue lysate at 20 µg with 5% NFDM/TBST

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Observed band size: 75 kDa

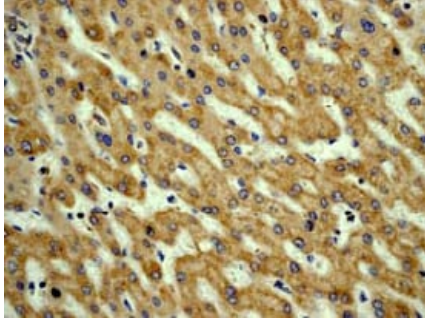
Exposure time: 30 seconds



Immunocytochemistry/ Immunofluorescence - Anti-Vitronectin/S-Protein antibody [EP873Y] (ab45139)

Immunocytochemistry analysis of HepG2 (human hepatocellular carcinoma epithelial cell) labeling Vitronectin/S-Protein with purified ab45139 at 1/100 dilution (7 µg/ml). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/1000 (2 µg/ml) was used as the secondary antibody. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.11 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI.

Negative control: PBS instead of the primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vitronectin/S-Protein antibody [EP873Y] (ab45139)

Ab45139 at a 1/100 dilution, staining human Vitronectin/S-Protein in human liver tissue by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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-Vitronectin/S-Protein antibody [EP873Y] (ab45139)

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