

## Product datasheet

# Anti-Vitronectin/S-Protein antibody [EP781Y] - BSA and Azide free ab247306

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-Vitronectin/S-Protein antibody [EP781Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP781Y] to Vitronectin/S-Protein - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IP: Human serum.
<b>General notes</b>	ab247306 is the carrier-free version of <a href="#">ab46808</a> .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP781Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247306 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 54,60,75 kDa (predicted molecular weight: 54 kDa).
IP		Use at an assay dependent concentration.

## Target

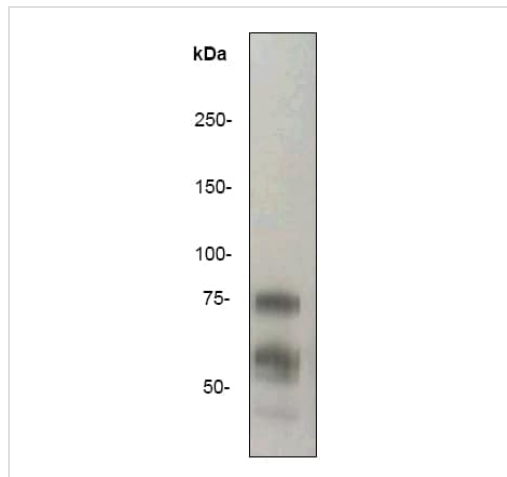
<b>Function</b>	Vitronectin is a cell adhesion and spreading factor found in serum and tissues. Vitronectin interact with glycosaminoglycans and proteoglycans. Is recognized by certain members of the integrin family and serves as a cell-to-substrate adhesion molecule. Inhibitor of the membrane-damaging effect of the terminal cytolytic complement pathway. Somatomedin-B is a growth hormone-dependent serum factor with protease-inhibiting activity.
<b>Tissue specificity</b>	Plasma.
<b>Sequence similarities</b>	Contains 4 hemopexin repeats. Contains 1 SMB (somatomedin-B) domain.
<b>Domain</b>	The SMB domain mediates interaction with SERPINE1/PAI1. The heparin-binding domain mediates interaction with insulin.
<b>Post-translational modifications</b>	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 [EP781Y] - BSA and Azide free (ab247306)

Anti-Vitronectin/S-Protein antibody [EP781Y] ([ab46808](#)) at 1/20000 dilution + Human serum at 10 µg

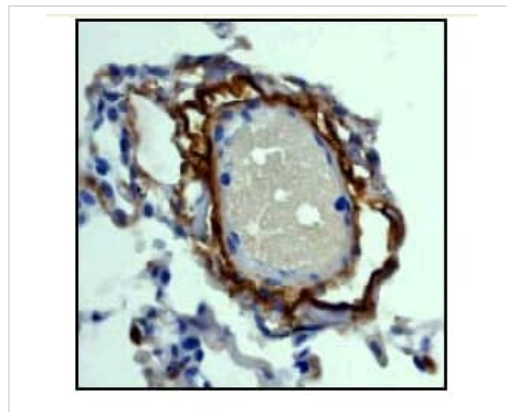
#### Secondary

Goat anti-rabbit, HRP labelled. at 1/2000 dilution

**Predicted band size:** 54 kDa

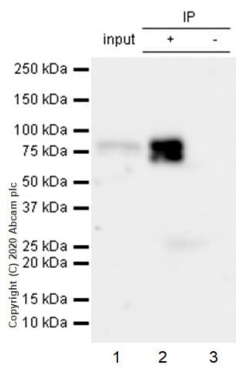
**Observed band size:** 75 kDa

This data was developed using [ab46808](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vitronectin/S-Protein antibody [EP781Y] - BSA and Azide free (ab247306)

This data was developed using [ab46808](#), the same antibody clone in a different buffer formulation. This image shows human lung tissue treated with [ab46808](#) at 1/100 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Vitronectin/S-Protein antibody [EP781Y] - BSA and Azide free (ab247306)

This data was developed using **ab46808**, the same antibody clone in a different buffer formulation.

Purified **ab46808** at 1/50 dilution (2µg) immunoprecipitating Vitronectin/S-Protein in Human serum.

Lane 1 (input): Human serum 10µg

Lane 2 (+): **ab46808** + Human serum.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab46808** in Human serum.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/10,000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 65-75 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-Vitronectin/S-Protein antibody [EP781Y] - BSA and Azide free (ab247306)

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

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