

# Anti-Vitronectin/S-Protein antibody [A18] ab23444

## 1 References

### Overview

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<b>Product name</b>	Anti-Vitronectin/S-Protein antibody [A18]
<b>Description</b>	Mouse monoclonal [A18] to Vitronectin/S-Protein
<b>Host species</b>	Mouse
<b>Specificity</b>	ab23444 is highly specific for Vitronectin/S-Protein. There is no evidence for cross reactivity with other connective tissue proteins (Fibronectin, Elastin, Collagen, Laminin).
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-P, Inhibition Assay, IHC-Fr <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rabbit, Horse, Cow <b>Does not react with:</b> Sheep, Human
<b>Immunogen</b>	Tissue, cells or virus corresponding to Cow Vitronectin/S-Protein. Lysed bovine corneal endothelial cells and extracellular matrix
<b>General notes</b>	<p>ab23444 can be used to probe vitronectin conformation.</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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: 0.0268% PBS, 2.9% Sodium chloride
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	A18

<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab23444 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
<b>ELISA</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration.
<b>Inhibition Assay</b>		Use at an assay dependent concentration. ab23444 inhibits integrin mediated cell adhesion to bovine vitronectin.
<b>IHC-Fr</b>		Use at an assay dependent concentration. 1/500 for PLP fixed samples.

**Application notes** Is unsuitable for WB.

## Target

<b>Function</b>	<p>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.</p> <p>Somatomedin-B is a growth hormone-dependent serum factor with protease-inhibiting activity.</p>
<b>Tissue specificity</b>	Plasma.
<b>Sequence similarities</b>	<p>Contains 4 hemopexin repeats.</p> <p>Contains 1 SMB (somatomedin-B) domain.</p>
<b>Domain</b>	The SMB domain mediates interaction with SERPINE1/PAI1. The heparin-binding domain mediates interaction with insulin.
<b>Post-translational modifications</b>	<p>Sulfated on 2 tyrosine residues.</p> <p>N- and O-glycosylated.</p> <p>Phosphorylation on Thr-69 and Thr-76 favors cell adhesion and spreading.</p> <p>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.</p> <p>Phosphorylation sites are present in the extracellular medium.</p>
<b>Cellular localization</b>	Secreted, extracellular space.

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