

## Datasheet: VPA00045

<b>Description:</b>	SHEEP ANTI FIBRONECTIN
<b>Specificity:</b>	FIBRONECTIN
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	100 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about [how we validate our PrecisionAb range](#).** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Sheep polyclonal antibody purified by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>).

### Approx. Protein Concentrations

IgG concentration 0.5 mg/ml.

<b>Immunogen</b>	Highly pure human fibronectin.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P02751</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2335</a>    FN1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FN
<b>Specificity</b>	<p><b>Sheep anti Human fibronectin antibody</b> detects human fibronectin, a multi-domain protein involved in the connection of cells to the extracellular matrix. Fibronectin is mostly found in dimeric form, consisting of two nearly identical polypeptide chains linked by a pair of C-terminal disulfide bonds. Each fibronectin monomer has a molecular weight of 230–250 kDa. Fibronectin can bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectin is present in the body in two forms; plasma fibronectin (soluble dimeric form) is secreted by hepatocytes, whilst cellular fibronectin (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix.</p> <p>Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing and blood coagulation (<a href="#">Schwarzbauer and DiSimone, 2011</a>) as well as pathologies such as metastasis (<a href="#">Van Obberghen-Schilling et al. 2011</a>).</p> <p>Sheep anti Human fibronectin antibody recognizes fibronectin as a single band of approximately 260 kDa in a range of human cell lysates by western blotting under reducing conditions. Cross reactivity with rodent cell line lysates is also observed.</p>
<b>Western Blotting</b>	Sheep anti Fibronectin detects a band of approxiamtely 260 kDa in A549 cell lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>Chen, R. <i>et al.</i> (2018) The optimization and production of stable homogeneous amine enriched surfaces with characterized nanotopographical properties for enhanced osteoinduction of mesenchymal stem cells. <a href="#">J Biomed Mater Res A. 106 (7): 1862-77.</a></li> <li>Zheng, Z. <i>et al.</i> (2022) <i>In Vivo</i> Inhibition of TRPC6 by SH045 Attenuates Renal Fibrosis in a New Zealand Obese (NZO) Mouse Model of Metabolic Syndrome. <a href="#">Int J Mol Sci. 23(12):6870.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature.</p> <p>Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p>
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VPA00045">https://www.bio-rad-antibodies.com/SDS/VPA00045</a></p>

## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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**Printed on 09 Jul 2025**

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