

Datasheet: VPA00045

Description:	SHEEP ANTI FIBRONECTIN
Specificity:	FIBRONECTIN
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	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.

	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. Click [here](#) to learn 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 (NaN₃).

Approx. Protein Concentrations

IgG concentration 0.5 mg/ml.

Immunogen	Highly pure human fibronectin.
External Database Links	<p>UniProt: P02751 Related reagents</p> <p>Entrez Gene: 2335 FN1 Related reagents</p>
Synonyms	FN
Specificity	<p>Sheep anti Human fibronectin antibody 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 (Schwarzbauer and DiSimone, 2011) as well as pathologies such as metastasis (Van Obberghen-Schilling et al. 2011).</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>
Western Blotting	Sheep anti Fibronectin detects a band of approxiamtely 260 kDa in A549 cell lysates.
References	<ol style="list-style-type: none"> 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. J Biomed Mater Res A. 106 (7): 1862-77. 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. Int J Mol Sci. 23(12):6870.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch.
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VPA00045 Antibody (10040)

Related Products

Recommended Secondary Antibodies

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M429973:240501'

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