

Datasheet: VMA00800

Description:	MOUSE ANTI STK11
Specificity:	STK11
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	11F3
Isotype:	IgG1
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
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-433 of human STK11

**External Database
Links**

UniProt:

[Q15831](#) [Related reagents](#)

Entrez Gene:

[6794](#) STK11 [Related reagents](#)

Synonyms

LKB1, PJS

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti STK11 antibody recognizes serine/threonine-protein kinase 11, also known as liver kinase B1 (LKB1) and renal carcinoma antigen NY-REN-19.

The ubiquitously-expressed protein STK11 is a serine/threonine kinase, acting as a "master kinase" to activate several downstream kinases. STK11 has a downstream effect on various signalling pathways including Wnt, TGF-beta and mTOR, and is important for cell survival, polarity, and energy homeostasis. Although a significant amount is known about the downstream processes controlled by STK11, less is known about the upstream processes that activate it ([Dogliotti et al. 2017](#)). The gene encoding STK11 acts as a tumor suppressor through inhibition of the mTOR pathway, but also functions as an oncogene ([Pécuchet et al. 2017](#)). About a third of lung cancer tumors have inactive or absent STK11 protein, and STK11 deficiency in patients with lung cancer is associated with increased rates of metastasis and decreased survival ([Jin et al. 2018](#)).

Western Blotting

Mouse anti STK11 antibody detects a band of approximately 53 kDa in K562 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

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**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00800>
10040

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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
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