

Datasheet: AAM80

Description:	RABBIT ANTI MOUSE ULK2
Specificity:	ULK2
Other names:	UNC-51-LIKE KINASE 2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			2.5 - 5.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Rat, Human N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to mouse Ulk2 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	KLH conjugated synthetic peptide corresponding to amino acids 370-382 of mouse Ulk2. The

corresponding sequence differs by two amino acids in rat and three amino acids in human.

External Database**Links****UniProt:**

[Q9QY01](#) [Related reagents](#)

Entrez Gene:

[29869](#) Ulk2 [Related reagents](#)

Synonyms

Kiaa0623

RRID

AB_10845151

Specificity

Rabbit anti Mouse ULK2 antibody recognizes mouse Ulk2 (Serine/threonine-protein kinase Ulk2), otherwise known as Unc-51-like kinase 2, a widely expressed mammalian Atg1 homologue and member of the protein kinase superfamily, which shares structural similarity with a serine/threonine kinase found in *C. elegans*, known to be involved in axonal elongation. Ulk2 and closely-related Ulk1, localize to autophagic isolation membranes under starvation conditions and binding of Atg13 (Autophagy-related protein 13) to Ulk1 and Ulk2, stabilizes and activates them, facilitating the phosphorylation of FIP200. FIP200 is a multifunctional protein involved in cell migration, proliferation, apoptosis, and tumor suppression.

Western Blotting

AAM80 detects a band of approximately 130kDa in HEK-293T cell lysates transfected with mouse ULK2.

Further Reading

1. Yan, J. *et al.* (1999) Mouse ULK2, a novel member of the UNC-51-like protein kinases: unique features of functional domains. [Oncogene. 18: 5850-9.](#)
 2. Lee, E.J. and Tournier, C. *et al.* (2011) The requirement of uncoordinated 51-like kinase 1 (ULK1) and ULK2 in the regulation of autophagy. [Autophagy. 7: 7689-95.](#)
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Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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