

## Datasheet: AAM80

<b>Description:</b>	RABBIT ANTI MOUSE ULK2
<b>Specificity:</b>	ULK2
<b>Other names:</b>	UNC-51-LIKE KINASE 2
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

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

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

[Q9QY01](#)    [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

Kiaa0623

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**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.

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**Western Blotting**

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

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...)    [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...)    [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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