

Mouse Anti Ampk Alpha 1/2

#Cat: NB-47-04141-100ug Size: 0.1mg

Description:	Mouse Anti Ampk Alpha 1/2
Specificity:	AMPK ALPHA 1/2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	84.1
Isotype:	IgG2a
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.neo-biotech.com

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology -Frozen	▪			
Immunohistology -Paraffin	▪		▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

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 Drosophila

Species Cross Reactivity	Based on sequence similarity, is expected to react with: Vertebrates, Human, 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	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	29 amino acid peptide within the N-terminal catalytic domain of Drosophila AMPK alpha.
External Database Links	UniProt: Q13131 Related_reagents Entrez Gene: 5562 PRKAA1 Related_reagents
Synonyms	AMPK1
RRID	AB_1604624

Specificity	<p>Mouse anti AMPK Alpha 1/2 antibody, clone 84.1 recognises both the alpha 1 and the alpha 2 isoforms of AMP-activated protein kinase (AMPK). AMPK is a highly conserved heterotrimeric protein kinase found in all eukaryotes. The heterotrimeric complex exists as multiple isoforms and consists of a catalytic alpha subunit, which is stabilized by non-catalytic regulatory beta- and gamma-subunits. AMPK plays a vital role in maintaining cellular energy homeostasis and is activated by rising levels of AMP under conditions of hypoxia, ischemia, exercise, low glucose levels.</p> <p>AMPK may play an important role in the control of type 2 diabetes and metabolic syndromes. AMPK functions as a suppressor of cell proliferation of both malignant and normal cells (Motoshima et al. 2006).</p>
Western Blotting	NB-47-04141-100UG detects a band of approximately 63kDa in rat brain cell lysates.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and Store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: www.neo-biotech.com 10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (NB-47-06061-500UG)	HRP
Rabbit Anti Mouse IgG (NB-47-05940-1ML)	RPE
Goat Anti Mouse IgG (NB-47-06055-500UG)	FITC
Goat Anti Mouse IgG IgA IgM (NB-47-06068-1MG)	Alk. Phos., HRP
Rabbit Anti Mouse IgG (NB-47-06079-1MG)	FITC
Goat Anti Mouse IgG (NB-47-0606-1ML)	RPE
Goat Anti Mouse IgG (H/L) (NB-47-05906-500UG)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (NB-47-059272-1MG)	HRP
Goat Anti Mouse IgG (Fc) (NB-47-05913-1MG)	FITC, HRP

To find a batch/lot specific datasheet for this product, please use our online search tool at: www.neo-biotech.com