

Product Datasheet

AMPK alpha 1 Antibody - BSA Free NB100-239

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-239

AMPK alpha 1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	64 kDa

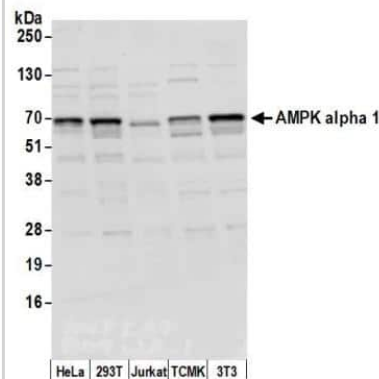
Product Description	
Host	Rabbit
Gene ID	5562
Gene Symbol	PRKAA1
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residues 350 and 400 of human 5'-AMP-activated Protein Kinase, catalytic Alpha-1 chain using the numbering given in entry BAA36547.1

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunohistochemistry, Immunoprecipitation 2 - 5 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000 - 1:5000
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

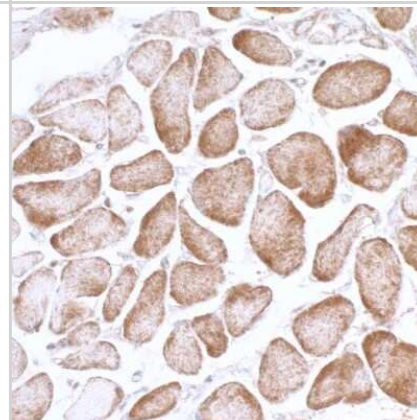


Images

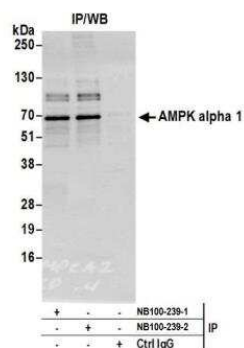
Western Blot: AMPK alpha 1 Antibody [NB100-239] - Detection of human and mouse AMPK alpha 1 by western blot. Samples: Whole cell lysate (15 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-AMPK alpha 1 antibody NB100-239 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



Immunohistochemistry: AMPK alpha 1 Antibody [NB100-239] - Detection of human AMPK alpha 1 by immunohistochemistry. Sample: FFPE section of human smooth muscle. Antibody: Affinity purified rabbit anti-AMPK alpha 1 (NB100-239). Detection: DAB



Immunoprecipitation: AMPK alpha 1 Antibody [NB100-239] - Detection of human AMPK alpha 1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-AMPK alpha 1 antibody NB100-239 (lot 2) used for IP at 3 ug per reaction. AMPK alpha 1 was also immunoprecipitated by a previous lot of this antibody (lot 1). For blotting immunoprecipitated AMPK alpha 1, NB100-239 was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



Publications

Helsley RN, Varadharajan V, Brown AL et al. Obesity-linked suppression of membrane-bound O-acyltransferase 7 (MBOAT7) drives non-alcoholic fatty liver disease *Elife* 2019-10-17 [PMID: 31621579]

Soltysik K, Ohsaki Y, Tatematsu T et al. Nuclear lipid droplets form in the inner nuclear membrane in a seipin-independent manner *The Journal of cell biology* 2021-01-04 [PMID: 33315072]

Harun-Or-Rashid, M, Pappenhagen, N Et al. Structural and Functional Rescue of Chronic Metabolically Stressed Optic Nerves through Respiration. *J Neurosci* 2018-05-30 [PMID: 29760184] (WB, Mouse)

Guevara-Cruz M, Godinez-Salas Et, Sanchez-Tapia M et Al. Genistein stimulates insulin sensitivity through gut microbiota reshaping and skeletal muscle AMPK activation in obese subjects *BMJ Open Diabetes Res Care* 2020-03-01 [PMID: 32152146] (WB, Human)

Xie B, Zhao M, Song D et Al. Induction of autophagy and suppression of type I IFN secretion by CSFV Autophagy 2020-03-21 [PMID: 32160078]

Scheele C, Nielsen S, Kelly M et al. Satellite cells derived from obese humans with type 2 diabetes and differentiated into myocytes in vitro exhibit abnormal response to IL-6. *PLoS One* 2012-01-01 [PMID: 22761857]

Wang S, Dale GL, Song P et al. AMPKalpha1 deletion shortens erythrocyte life span in mice: role of oxidative stress. *J Biol Chem* 2010-06-01 [PMID: 20392689]

Bendayan M, Londono I, Kemp BE et al. Association of AMP-activated protein kinase subunits with glycogen particles as revealed in situ by immunoelectron microscopy. *J Histochem Cytochem* 2009-10-01 [PMID: 19581628]

Hou X, Xu S, Maitland-Toolan KA et al. SIRT1 regulates hepatocyte lipid metabolism through activating AMP-activated protein kinase. *J Biol Chem* 2008-07-01 [PMID: 18482975]

Gauthier MS, Miyoshi H, Souza SC et al. AMP-activated protein kinase is activated as a consequence of lipolysis in the adipocyte: potential mechanism and physiological relevance. *J Biol Chem* 2008-06-01 [PMID: 18390901]

Qin S, Ni M, De Vries GW et al. Implication of S-adenosylhomocysteine hydrolase in inhibition of TNF-alpha- and IL-1beta-induced expression of inflammatory mediators by AICAR in RPE cells. *Invest Ophthalmol Vis Sci* 2008-03-01 [PMID: 18326758]

Cammisotto PG, Londono I, Gingras D et al. Control of glycogen synthase through ADIPOR1-AMPK pathway in renal distal tubules of normal and diabetic rats. *Am J Physiol Renal Physiol* 2008-04-01 [PMID: 18256313]

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Products Related to NB100-239

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51992-0.1mg	Recombinant Human AMPK alpha 1 His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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