

# Product Datasheet

## AMPK alpha 2 Antibody - BSA Free NB100-238

Unit Size: 100 ul

Store at 4C. Do not freeze.

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### Publications: 7

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**NB100-238**

AMPK alpha 2 Antibody - BSA Free

**Product Information**

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Unit Size</b>               | 100 ul                                |
| <b>Concentration</b>           | 1.0 mg/ml                             |
| <b>Storage</b>                 | Store at 4C. Do not freeze.           |
| <b>Clonality</b>               | Polyclonal                            |
| <b>Preservative</b>            | 0.09% Sodium Azide                    |
| <b>Isotype</b>                 | IgG                                   |
| <b>Purity</b>                  | Immunogen affinity purified           |
| <b>Buffer</b>                  | Tris-Citrate/Phosphate (pH 7.0 - 8.0) |
| <b>Target Molecular Weight</b> | 62 kDa                                |

**Product Description**

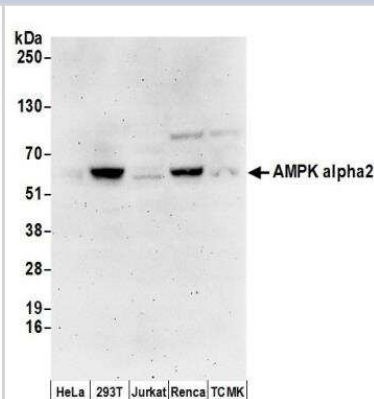
|                         |                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>      | Novus Biologicals Rabbit AMPK alpha 2 Antibody - BSA Free (NB100-238) is a polyclonal antibody validated for use in WB and IP. Anti-AMPK alpha 2 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| <b>Host</b>             | Rabbit                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>          | 5563                                                                                                                                                                                                                                                    |
| <b>Gene Symbol</b>      | PRKAA2                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human, Mouse                                                                                                                                                                                                                                            |
| <b>Reactivity Notes</b> | Orangutan (100%).                                                                                                                                                                                                                                       |
| <b>Immunogen</b>        | The immunogen recognized by this antibody maps to a region between residues 350 and 400 of human 5'-AMP-activated Protein Kinase, catalytic Alpha-2 chain using the numbering given in entry AAH69823.1 (GeneID 5563).                                  |

**Product Application Details**

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| <b>Applications</b>          | Western Blot, Immunoprecipitation                               |
| <b>Recommended Dilutions</b> | Western Blot 1:500-1:5000, Immunoprecipitation 2-8 ug/mg lysate |

**Images**

Western Blot: AMPK alpha 2 Antibody [NB100-238] - Detection of Human and Mouse AMPK alpha 2 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa, 293T, Jurkat, mouse Renca, and mouse TCMK-1 cells. Antibodies: Affinity purified rabbit anti-AMPK alpha 2 antibody NB100-238 used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



## Publications

Masuda M, Miyazaki-Anzai S, Keenan AL et al. Saturated phosphatidic acids mediate saturated fatty acid-induced vascular calcification and lipotoxicity. *J Clin Invest* 2015-10-26 [PMID: 26517697]

Oral mucosa harbors a high frequency of endothelial cells - a novel postnatal cell source for angiogenic regeneration *Stem Cells Dev.*, 2016-12-22;0(0):. 2016-12-22 [PMID: 27832737]

Roan, J N, Cheng, H N Et al. Exendin-4, a glucagon-like peptide-1 analogue, accelerates diabetic wound healing. *J Surg Res* 2017-02-01 [PMID: 27993221]

Derkach K, Zakharova I, Zorina I et al. The evidence of metabolic-improving effect of metformin in Ay/a mice with genetically-induced melanocortin obesity and the contribution of hypothalamic mechanisms to this effect *PLoS ONE* 2019-03-14 [PMID: 30870482] (WB, Mouse)

Jaitovich A, Angulo M, Lecuona E et al. High CO<sub>2</sub> levels cause skeletal muscle atrophy via AMPK, FoxO3a and muscle-specific ring finger protein1 (MuRF1). *J Biol Chem.* 2015-02-17 [PMID: 25691571] (WB, Mouse)

### Details:

AMPK alpha 2 antibody used for WB application on total cell lysates as well as cytoplasmic fractions of C2C12 mouse myoblasts generated myotubes that were transfected with AMPK alpha 1 as well as AMPK alpha 2 siRNA followed by exposure to high CO<sub>2</sub> (FIGURE 8C, 9B).

Rubin LJ, Magliola L, Feng X et al. Metabolic activation of AMP kinase in vascular smooth muscle. *J Appl Physiol* 2005-01-01 [PMID: 15377643]

Gusarova GA, Dada LA, Kelly AM et al. {alpha}1-AMP-Activated Protein Kinase Regulates Hypoxia-Induced Na,K-ATPase Endocytosis via Direct Phosphorylation of Protein Kinase C{zeta}. *Mol Cell Biol* 2009;29(13):3455-3464. [PMID: 19380482]





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### **Products Related to NB100-238**

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|                    |                                                     |
|--------------------|-----------------------------------------------------|
| HAF008             | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160             | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891         | Rabbit IgG Isotype Control                          |
| H00005563-Q01-10ug | Recombinant Human AMPK alpha 2 GST (N-Term) Protein |

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### **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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