

# Product datasheet for TA383644

# AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody

### **Product data:**

#### **Product Type: Primary Antibodies Applications:** ELISA, IF, IHC, WB Recommended Dilution: IF: 1/50-200 WB: 1/500-1/2000 IHC: 1/100-1/300 ELISA: 1/40000 **Reactivity:** Human, Mouse, Rat, Monkey, Pig Host: Rabbit Isotype: lgG **Clonality:** Polyclonal The antiserum was produced against synthesized peptide derived from human AMPK alpha Immunogen: around the phosphorylation site of Thr172. AA range:140-189 (Phosphorylated) Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Concentration: lot specific **Purification:** Affinity Chromatography **Conjugation:** Unconjugated Storage: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. Stability: 1 year **Predicted Protein Size:** Observed MW (kDa):63 Gene Name: protein kinase AMP-activated catalytic subunit alpha 1 Database Link: Entrez Gene 5562 Human Q13131



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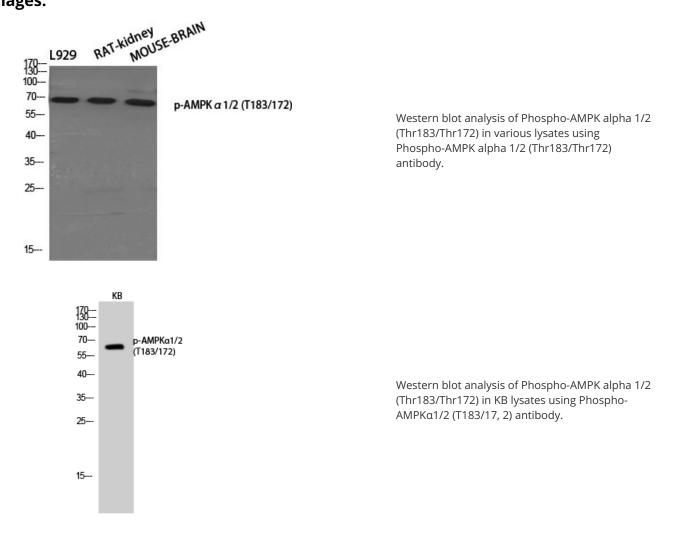
### OriGene Technologies, Inc.

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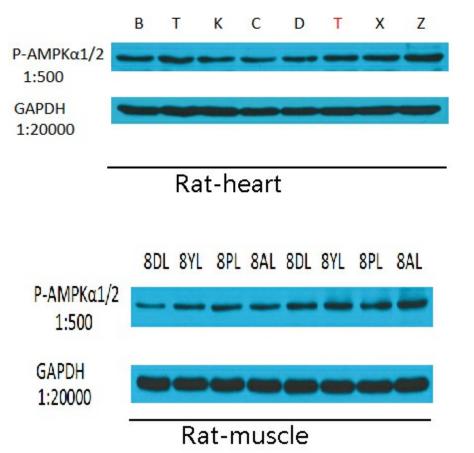
|             | AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody – TA383644   |
|-------------|---|
| Background: | Swiss-Prot Acc.Q13131/P54646.Protein kinase AMP-activated catalytic subunit alpha 1<br>encoded by PRKAA1 belongs to the ser/thr protein kinase family. It is the catalytic subunit of<br>the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor<br>conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that<br>increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key<br>metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP<br>depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced<br>transcript variants encoding distinct isoforms have been observed. |

### Synonyms: AMPK; AMPK1; AMPKa1; MGC33776; MGC57364

## **Product images:**

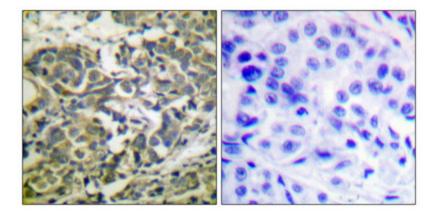


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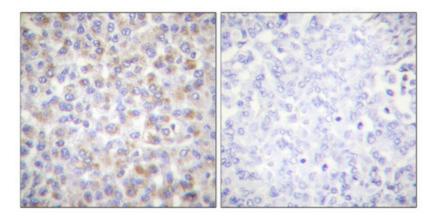
Western blot analysis of Phospho-AMPK alpha 1/2 in rat muscle heart using Phospho-AMPK alpha 1/2 antibody.

Western blot analysis of Phospho-AMPK alpha 1/2 in rat muscle lysates using Phospho-AMPK alpha 1/2 antibody.



Immunohistochemistry analysis of paraffinembedded Human breast cancer using Phospho-AMPK alpha 1/2 (Thr183/Thr172) antibody.Highpressure and temperature Tris-EDTA pH 8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody. was preabsorbed by immunogen peptide.

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Immunohistochemistry analysis of paraffinembedded Human breast cancer using Phospho-AMPK alpha 1/2 (Thr183/Thr172) antibody.Highpressure and temperature Tris-EDTA pH 8.0 was used for antigen retrieval.Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.

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