

Product datasheet for TA383644S

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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: **IgG**

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



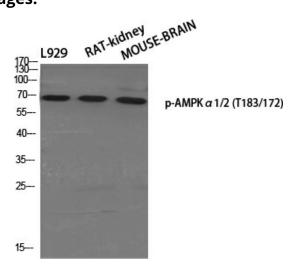


Background:

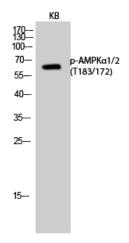
Swiss-Prot Acc.Q13131/P54646.Protein kinase AMP-activated catalytic subunit alpha 1 encoded by PRKAA1 belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The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

Synonyms: AMPK; AMPK1; AMPKa1; MGC33776; MGC57364

Product images:

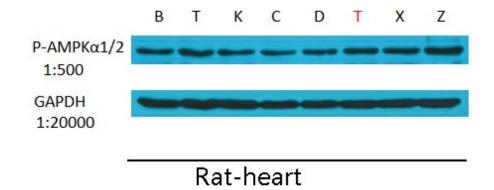


Western blot analysis of Phospho-AMPK alpha 1/2 (Thr183/Thr172) in various lysates using Phospho-AMPK alpha 1/2 (Thr183/Thr172) antibody.

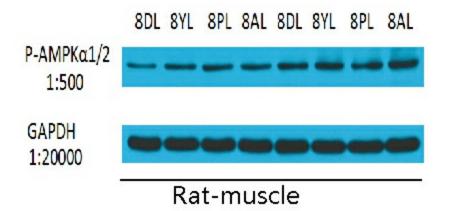


Western blot analysis of Phospho-AMPK alpha 1/2 (Thr183/Thr172) in KB lysates using Phospho-AMPK α 1/2 (T183/17, 2) antibody.

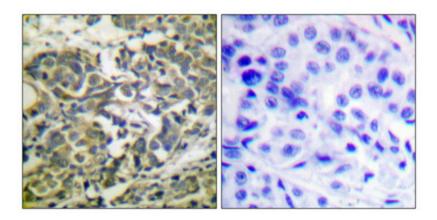




Western blot analysis of Phospho-AMPK alpha 1/2 in rat muscle heart using Phospho-AMPK alpha 1/2 antibody.

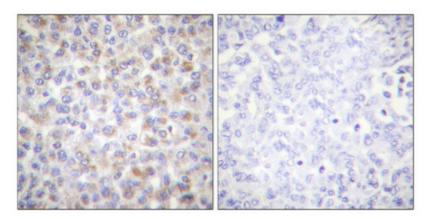


Western blot analysis of Phospho-AMPK alpha 1/2 in rat muscle lysates using Phospho-AMPK alpha 1/2 antibody.



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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