

Anti-Phospho-AMPK α (Thr172) Antibody (30988)

Product Details

Ig Type:	Rabbit IgG Human;
Reactivity:	Predicted to React with:Species predicted to react based on 100% sequence homology: Mouse, Cynomolgus, Pig
Conjugation:	Unconjugated
Clone:	30988
Purification:	Protein A

Applications

Verified Activity:	Western blot analysis of extracts from Rat brain, untreated (line A); treated with λ -phosphatase (line B) using Phospho-AMPK α (Thr172) rabbit monoclonal Antibody at 1:2000 dilution.
Application:	WB
Recommended	WB: 1:2000-1:20000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around (Thr172) of Human Phospho-AMPK α
Antigen Species:	Human
Synonyms:	AMPKalpha;AMPK1;AMPKa1;AMPK α (p-Thr172);p-AMPK α (Thr172);AMPK alpha 1;p-AMPK α (T172);AMPK;Phospho-AMPK α (T172);AMPK α (p-T172)

Research Background

The PRKAA1 gene encodes the catalytic alpha-subunit of 5' AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor that maintains energy homeostasis within the cell and is activated when the AMP/ATP ratio increases. Moreover, AMPK has been shown to be involved in inhibiting tumour growth and metastasis, and has also been implicated in the pathology of neurodegenerative and cardiac disorders. All 5 tested tag SNPs of the PRKAA1 gene (rs13361707, rs154268, rs3805486, rs6882903, and rs10074991) were significantly associated with gastric cancer. An inhibitor of PRKAA1 promoted the secretion of IL6, whereas an agonist of PRKAA1 suppressed the production of IL6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481