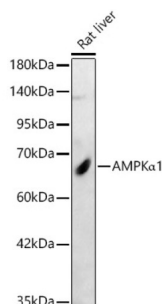


5'-AMP-Activated Protein Kinase Catalytic Subunit Alpha-1 (PRKAA1) Antibody

Catalogue No.: abx001141



Western blot analysis of lysates from Rat liver, using AMPKα1 Antibody at 1/2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 30s.

PRKAA1 Antibody is a Rabbit Polyclonal antibody against PRKAA1. The protein encoded by this gene 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.

Target: 5'-AMP-Activated Protein Kinase Catalytic Subunit Alpha-1 (PRKAA1)

Clonality: Polyclonal

Reactivity: Human, Mouse, Rat

Tested Applications: ELISA, WB, IHC, IF/ICC

Host: Rabbit

Recommended dilutions: ELISA: 1 µg/ml, WB: 1/1000 - 1/5000, IHC-P: 1/100 - 1/500, IF/ICC: 1/50 - 1/200. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Immunogen: Synthetic peptide corresponding to PRKAA1. The exact sequence is proprietary.

Isotype: IgG

Form: Liquid

Purification: Purified by affinity chromatography.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

Datasheet

Version: 6.0.0
Revision date: 28 Sep 2025



UniProt Primary AC: Q13131 ([UniProt](#), [ExPASy](#))

Gene Symbol: PRKAA1

GeneID: [5562](#)

NCBI Accession: NP_006242.5

KEGG: hsa:5562

String: [9606.ENSP00000346148](#)

Molecular Weight: Calculated MW: 64 kDa
Observed MW: 64 kDa

Buffer: PBS, pH 7.3, containing 0.05% Proclin-300, 50% glycerol.

Concentration: > 0.2 mg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only