

## PRKAB1 RABBIT PAB

**Cat.#:** S213351

**Product Name:** Anti-PRKAB1 Rabbit Polyclonal Antibody

**Synonyms:** AMPK, HAMPKb

**UNIPROT ID:** Q9Y478 (Gene Accession - NP\_006244 )

**Background:** The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex.

**Immunogen:** Synthetic peptide of human PRKAB1

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: Oct-50; ELISA: 1000-2000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

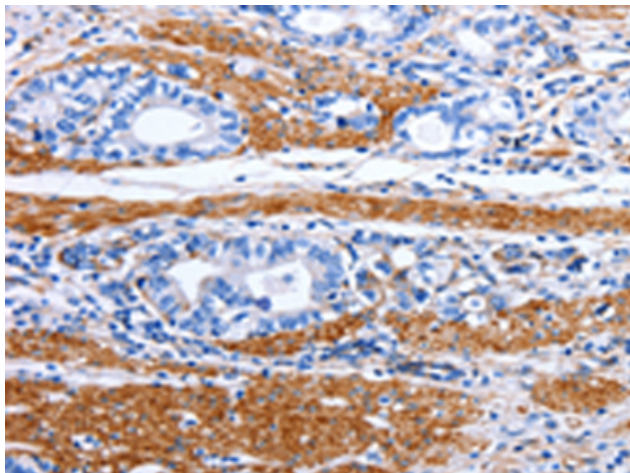
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

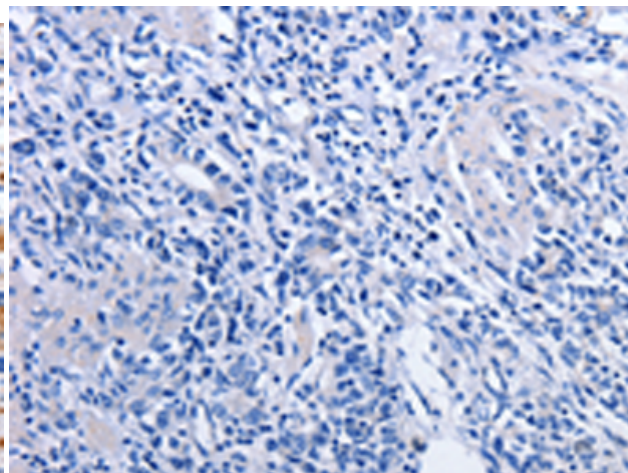
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Metabolism, Signal Transduction, Cancer, Cardiovascular

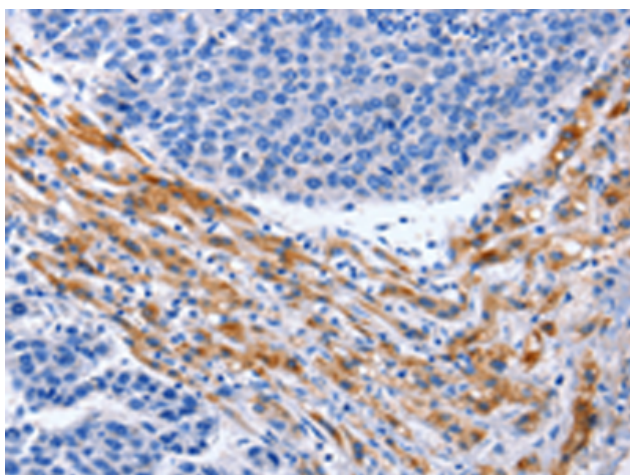
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



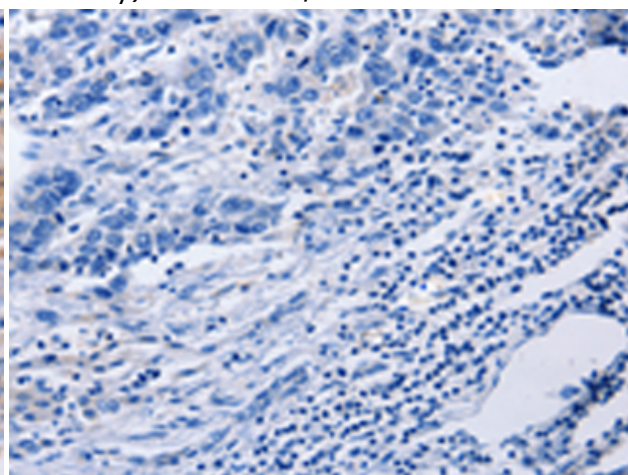
Immunohistochemistry analysis of paraffin embedded Human stomach cancer tissue using 213351 (PRKAB1 Antibody) at a dilution of 1/15 (Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human stomach cancer tissue is first treated with the synthetic peptide and then with 213351 (Anti-PRKAB1 Antibody) at dilution 1/15.



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using 213351 (Anti-PRKAB1 Antibody) at a dilution of 1/15.



In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with synthetic peptide and then with D160046 (Anti-PRKAB1 Antibody) at dilution 1/15.