

## Product datasheet for **TA322521S**

### AMPK beta 1 (PRKAB1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 10-50 Positive control: Human stomach cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 1-14 amino acids of Human protein kinase, AMP-activated, beta 1 non-catalytic subunit
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	protein kinase AMP-activated non-catalytic subunit beta 1
Database Link:	<a href="#">NP_006244</a> <a href="#">Entrez Gene 19079 Mouse</a> <a href="#">Entrez Gene 83803 Rat</a> <a href="#">Entrez Gene 5564 Human</a> <a href="#">Q9Y478</a>



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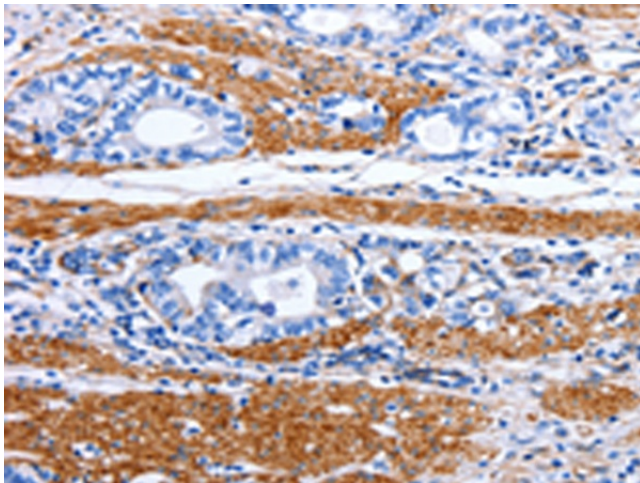
**Background:** The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit; and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. 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.

**Synonyms:** AMPK; HAMPKb

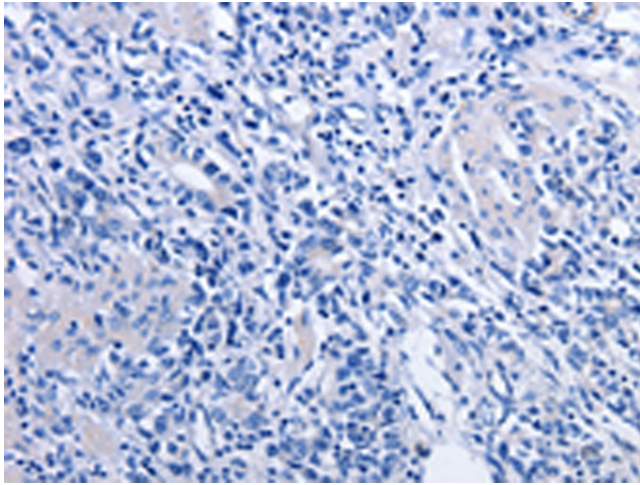
**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

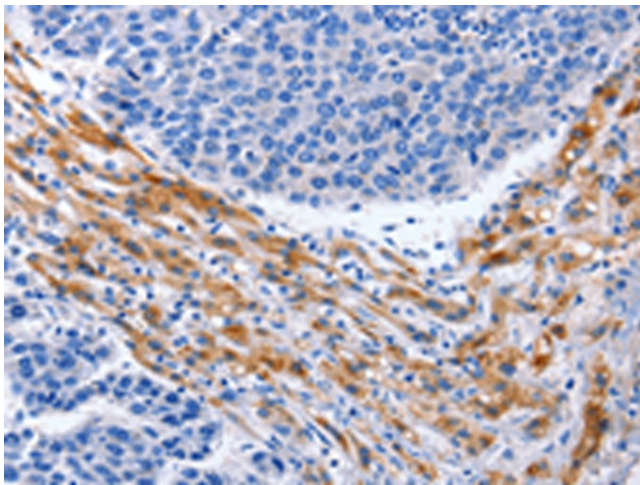
### Product images:



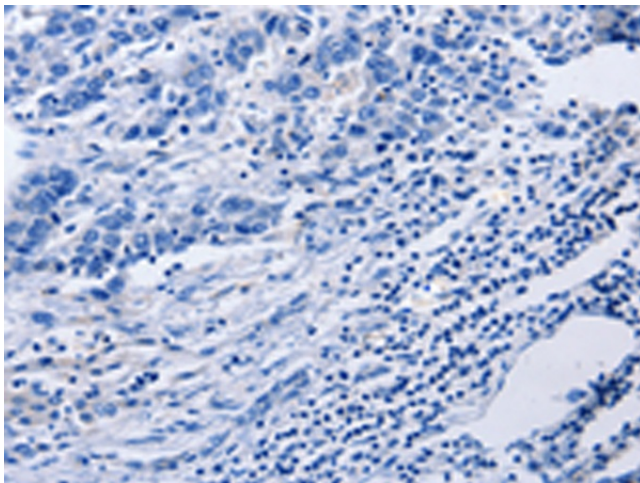
Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using [TA322521] (PRKAB1 Antibody) at dilution 1/15 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using [TA322521] (PRKAB1 Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA322521] (PRKAB1 Antibody) at dilution 1/15 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA322521] (PRKAB1 Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification:  $\times 200$ )