

Datasheet for ABIN7238525

anti-PRKAA1 antibody**2** Images[Go to Product page](#)

Overview

| | |
|--------------|---------------------------------------|
| Quantity: | 200 µL |
| Target: | PRKAA1 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PRKAA1 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), ELISA |

Product Details

| | |
|------------------|-----------------------------------|
| Immunogen: | Synthetic peptide of human PRKAA1 |
| Isotype: | IgG |
| Characteristics: | Polyclonal Antibody |
| Purification: | Affinity purification |

Target Details

| | |
|-------------------|--|
| Target: | PRKAA1 |
| Alternative Name: | AMPK alpha1 (PRKAA1 Products) |
| Background: | 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 |

Target Details

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.

NCBI Accession: [NP_006242](#)

UniProt: [Q13131](#)

Pathways: [AMPK Signaling](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: IHC 1:100-1:300

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

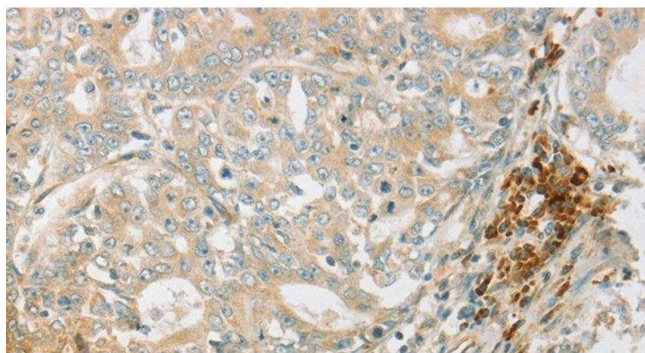
Buffer: PBS with 0.05 % sodium azide and 50 % glycerol, PH7.4

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

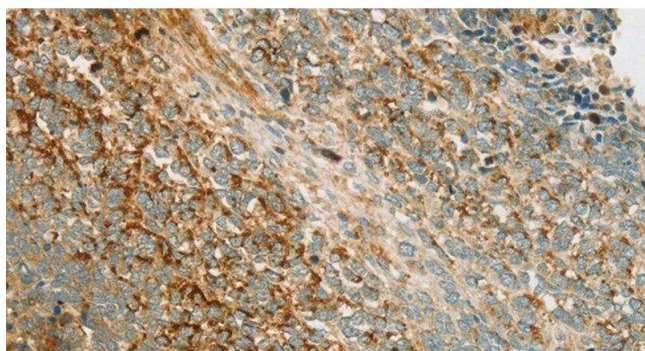
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using AMPK alpha1 Polyclonal Antibody at dilution 1:70



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using AMPK alpha1 Polyclonal Antibody at dilution 1:70