

## Anti-PRKAR2A antibody

<b>Cat. No.</b>	ml222880
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-PRKAR2A rabbit polyclonal antibody
<b>Applications</b>	ELISA, IHC
<b>Immunogen</b>	Fusion protein of human PRKAR2A
<b>Reactivity</b>	Human
<b>Content</b>	0.3 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	PRKAR2A
<b>Full name</b>	protein kinase, cAMP-dependent, regulatory subunit type II alpha
<b>Synonyms</b>	PKR2; PRKAR2
<b>Swissprot</b>	P13861

### Target Background

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).

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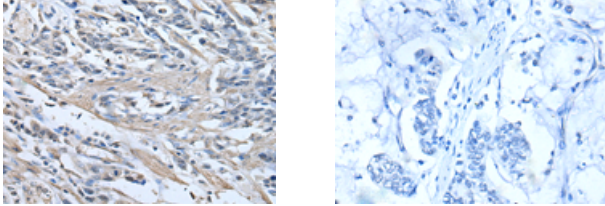
#### Applications

##### Immunohistochemistry

Predicted cell location: Cytoplasm and Cell membrane

Positive control: Human gastric cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using ml222880(PRKAR2A Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

##### ELISA

Recommended dilution: 5000-10000

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