Anti-PRKAR2A antibody

Cat. No.	ml122880
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-PRKAR2A rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human PRKAR2A
Reactivity	Human
Content	0.8 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

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

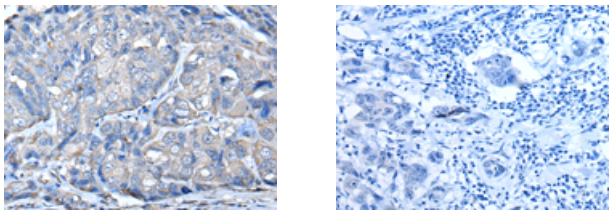
Target Background

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).

Applications

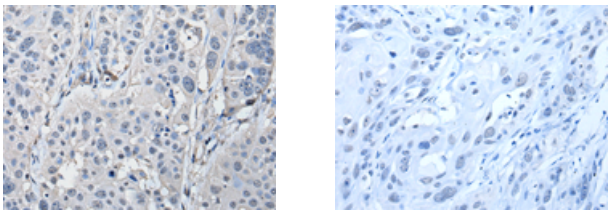
Immunohistochemistry

Predicted cell location: Cytoplasm and Cell membrane
Positive control: Human breast cancer
Recommended dilution: 35-200



The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using ml122880(PRKAR2A Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm and Cell membrane
Positive control: Human esophagus cancer
Recommended dilution: 35-200

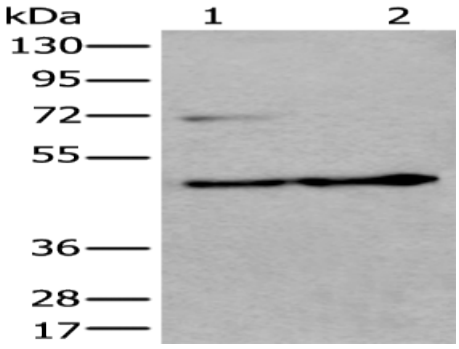


The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml122880(PRKAR2A Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:46 kDa
Positive control:HEPG2 cell and Human testis tissue lysates
Recommended dilution: 500-2000

Gel: 8%SDS-PAGE
Lysate: 40 μg
Lane 1-2: HEPG2 cell and Human testis tissue lysates
Primary antibody: ml122880(PRKAR2A Antibody) at dilution 1/550
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 30 seconds



ELISA

Recommended dilution: 5000-10000

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