

Anti-PRKAR2B Polyclonal Antibody

Cat: K108889P

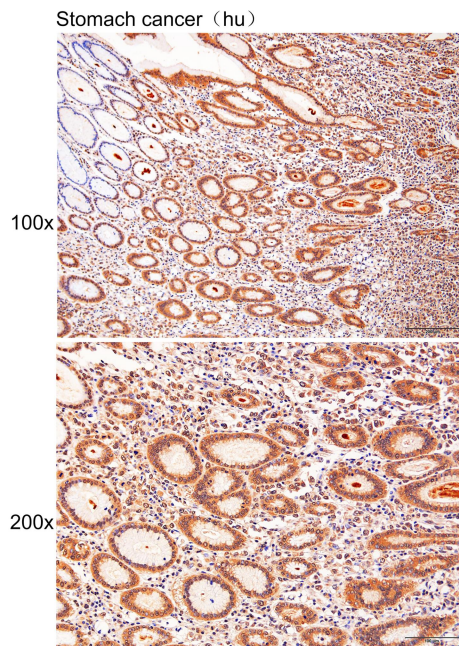
Summary:

【Product name】 : Anti-PRKAR2B antibody	【Source】 : Rabbit
【Isotype】 : IgG	【Species reactivity】 : Human Mouse Rat
【Swiss Prot】 : P31323	【Gene ID】 : 5577
【Calculated】 : MW:46kDa	
【Purification】 : Affinity purification	
【Tested applications】 : IHC	
【Recommended dilution】 : IHC 1:50-200.	
【IHC Positive sample】 : Human stomach cancer	
【Subcellular location】 : Cytoplasm	
【Immunogen】 : A synthetic peptide of Human PRKAR2B	
【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C	

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. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activated T cells. Knockout studies in mice suggest that this subunit may play an important role in regulating energy balance and adiposity. The studies also suggest that this subunit may mediate the gene induction and cataleptic behavior induced by haloperidol.

Verified picture



Immunohistochemistry of paraffin-embedded
Human stomach cancer with PRKAR2B
antibody diluted at 1:100