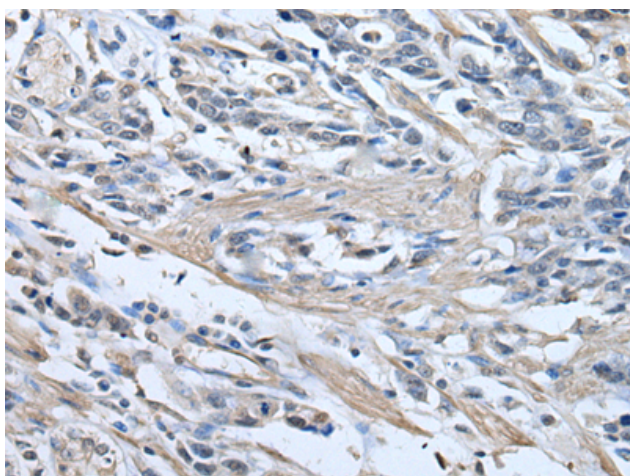
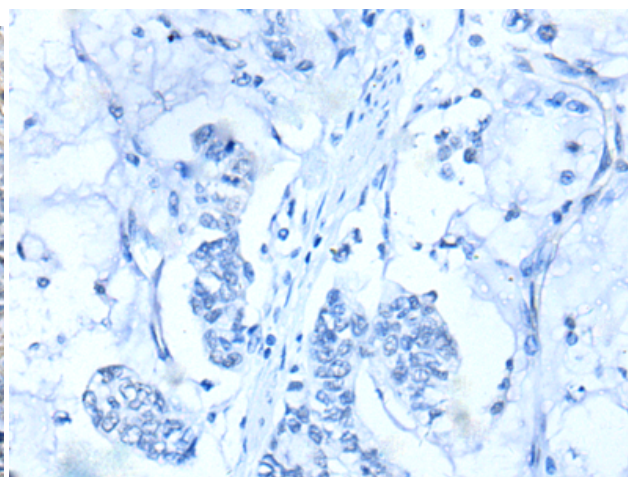


PRKAR2A RABBIT PAB**Cat.#:** S217696**Product Name:** Anti-PRKAR2A Rabbit Polyclonal Antibody**Synonyms:** PKR2; PRKAR2**UNIPROT ID:** P13861 (Gene Accession - BC002763)

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).

Immunogen: Fusion protein of human PRKAR2A**Applications:** ELISA, IHC**Recommended Dilutions:** IHC: 25-100; ELISA: 5000-10000**Host Species:** Rabbit**Clonality:** Rabbit Polyclonal**Isotype:** Immunogen-specific rabbit IgG**Purification:** Antigen affinity purification**Species Reactivity:** Human**Constituents:** PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol**Research Areas:** Signal Transduction, Cancer, Metabolism**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing

Immunohistochemistry analysis of paraffin embedded Human gastric cancer tissue using 217696 (PRKAR2A Antibody) at a dilution of 1/30 (Cytoplasm and Cell membrane).



In comparison with the IHC on the left, the same paraffin-embedded Human gastric cancer tissue is first treated with the fusion protein and then with 217696 (Anti-PRKAR2A Antibody) at dilution 1/30.

