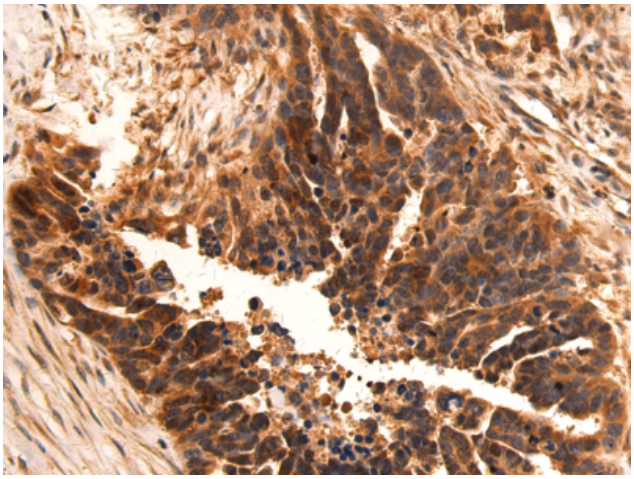
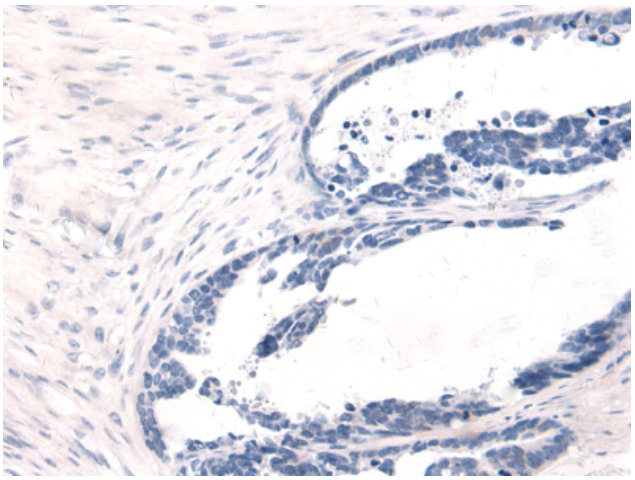
CLOCK RABBIT PAB

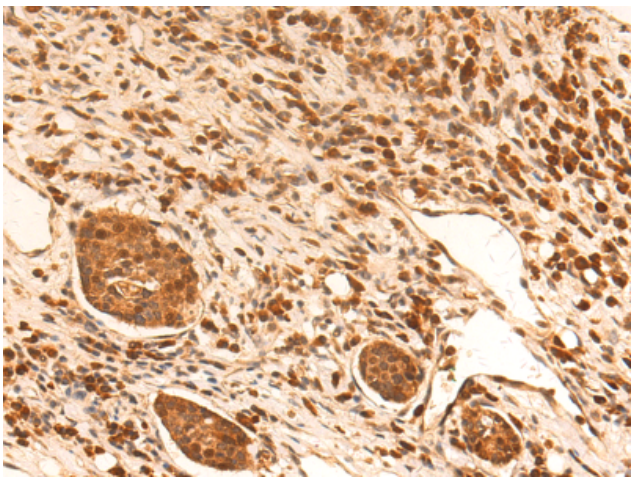
Cat.#: S222361
Product Name: Anti-CLOCK Rabbit Polyclonal Antibody
Synonyms: KAT13D; bHLHe8
UNIPROT ID: O15516 (Gene Accession - NP_004889)
Background: The protein encoded by this gene plays a central role in the regulation of circadian rhythms. The protein encodes a transcription factor of the basic helix-loop-helix (bHLH) family and contains DNA binding histone acetyltransferase activity. The encoded protein forms a heterodimer with ARNTL (BMAL1) that binds E-box enhancer elements upstream of Period (PER1, PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Polymorphisms in this gene may be associated with behavioral changes in certain populations and with obesity and metabolic syndrome. Alternative splicing results in multiple transcript variants.
Immunogen: Synthetic peptide of human CLOCK
Applications: ELISA, IHC
Recommended Dilutions: IHC: 100-300; ELISA: 5000-10000
Host Species: Rabbit
Clonality: Rabbit Polyclonal
Isotype: Immunogen-specific rabbit IgG
Purification: Antigen affinity purification
Species Reactivity: Human, Mouse, Rat
Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol
Research Areas: Neuroscience, Metabolism, Epigenetics and Nuclear Signaling, Cardiovascular
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



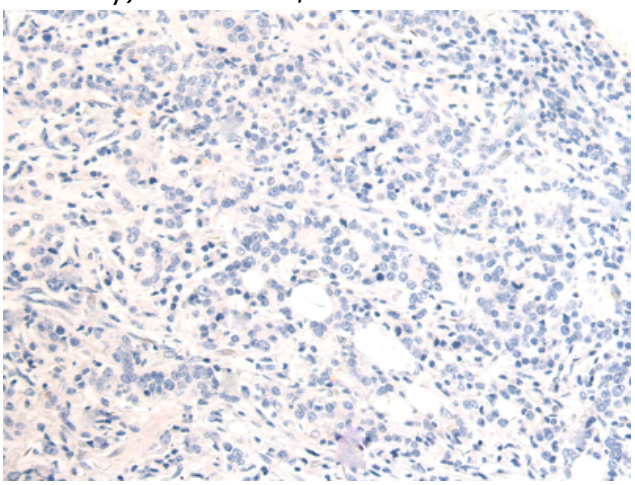
Immunohistochemistry analysis of paraffin embedded Human colorectal cancer tissue using 222361(CLOCK Antibody) at a dilution of 1/65(Nucleus and Cytoplasm).



In comparision with the IHC on the left, the same paraffin-embedded Human colorectal cancer tissue is first treated with the synthetic peptide and then with 222361(Anti-CLOCK Antibody) at dilution 1/65.



The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using 222361(Anti-CLOCK Antibody) at a dilution of 1/65.



In comparision with the IHC on the left, the same paraffin-embedded Human gastric cancer tissue is first treated with synthetic peptide and then with D264473(Anti-CLOCK Antibody) at dilution 1/65.