

## EXOSC4 RABBIT PAB

**Cat.#:** S219281

**Product Name:** Anti-EXOSC4 Rabbit Polyclonal Antibody

**Synonyms:** SKI6; p12A; RRP41; Ski6p; RRP41A; Rrp41p; hRrp41p

**UNIPROT ID:** Q9NPD3 (Gene Accession - BC002777 )

**Background:** Non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC4 binds to ARE-containing RNAs.

**Immunogen:** Fusion protein of human EXOSC4

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 50-200;WB: 500-2000;ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

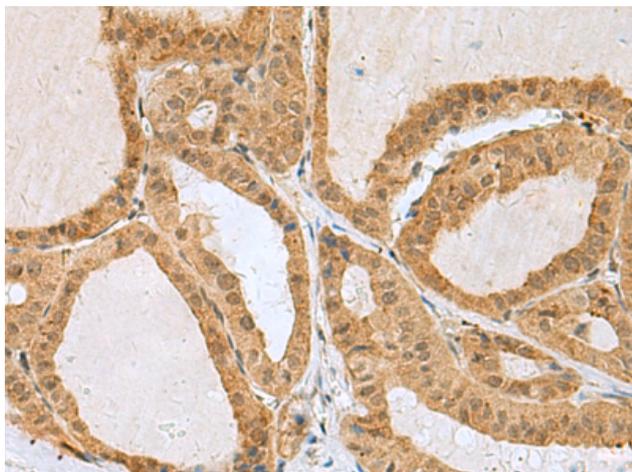
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse

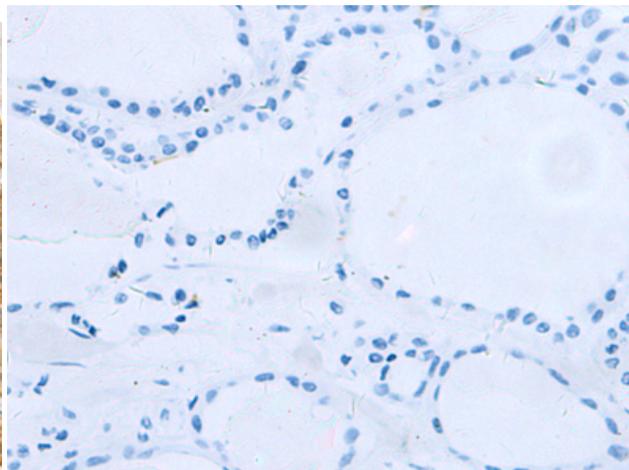
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Epigenetics and Nuclear Signaling

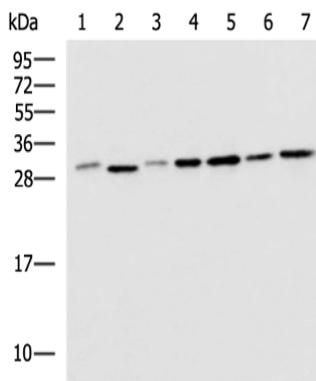
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human thyroid cancer tissue using 219281(EXOSC4 Antibody) at a dilution of 1/50(Cytoplasm and Nucleus).



In comparison with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with the fusion protein and then with 219281(Anti-EXOSC4 Antibody) at dilution 1/50.



Gel: 12%SDS-PAGE, Lysate: 40 µg;  
 Lane 1-7: Human fetal liver tissue, RAW264.7,  
 PC-3, 293T, LO2, Hela and Jurkat cell lysates;  
 Primary antibody: 219281(EXOSC4 Antibody) at  
 dilution 1/650;  
 Secondary antibody: HRP-conjugated Goat  
 anti rabbit IgG at 1/5000 dilution;  
 Exposure time: 20 seconds