

## Product datasheet for **TA370789S**

### EXOSC4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human fetal liver tissue, RAW264.7, PC-3, 293T, LO2, Hela and Jurkat cell lysates IHC: 50-200 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm and Nucleus
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human EXOSC4
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	26 kDa
Gene Name:	exosome component 4
Database Link:	<a href="#">Entrez Gene 54512 Human Q9NPD3</a>



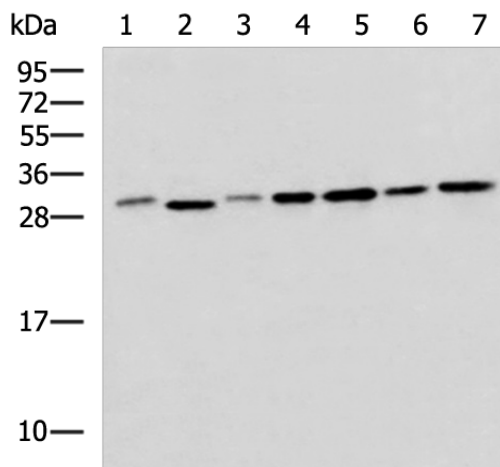
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**Background:**

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.

**Synonyms:**

FLJ20591; hRrp41p; p12A; RRP41; RRP41A; Rrp41p; SKI6; Ski6p

**Product images:**

Gel: 12%SDS-PAGE

Lysate: 40 µg

Lane 1-7: Human fetal liver tissue

RAW264.7

PC-3

293T

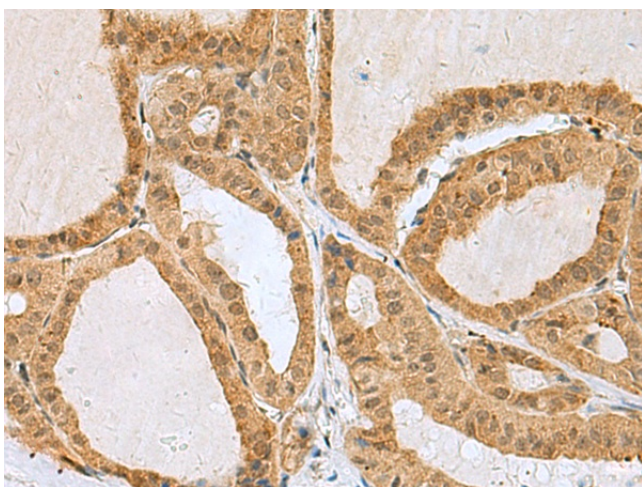
LO2

HeLa and Jurkat cell lysates

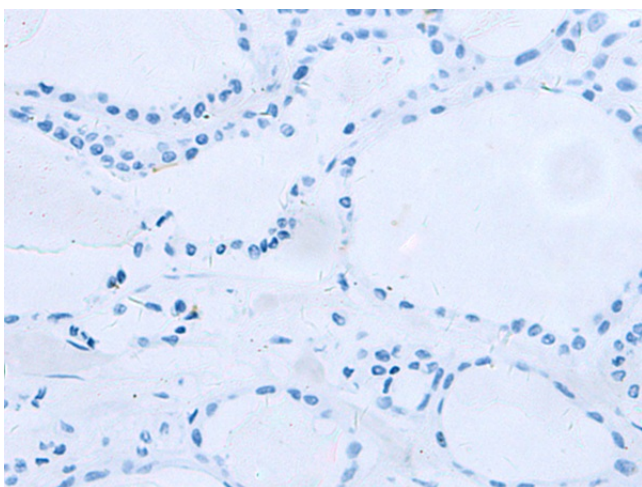
Primary antibody: [TA370789] (EXOSC4 Antibody) at dilution 1/650

Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution

Exposure time: 20 seconds



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA370789] (EXOSC4 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA370789] (EXOSC4 Antibody) at dilution 1/50, treated with fusion protein. (Original magnification:  $\times 200$ )