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EXOSC3 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI11706

Specification

EXOSC3 antibody - middle region - Product Information

Application	**WB, IHC**
Primary Accession	Q9NQT5
Other Accession	NM_016042, NP_057126
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Pig, Chicken**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**30kDa KDa**

EXOSC3 antibody - middle region - Additional Information

Gene ID 51010

Alias Symbol	**p10, RRP40, Rrp40p, CGI-102, hRrp-40, hRrp40p, bA3J10.7, RP11-3J10.8**

Other Names
Exosome complex component RRP40, Exosome component 3, Ribosomal RNA-processing protein 40, p10, EXOSC3, RRP40

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-EXOSC3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
EXOSC3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

EXOSC3 antibody - middle region - Protein Information

Name EXOSC3

Synonyms RRP40

Function
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. EXOSC3 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC9 and EXOSC5.

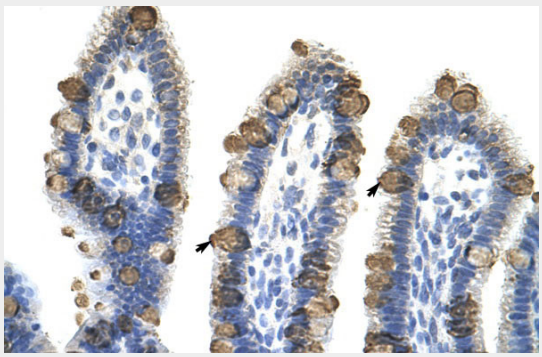
Cellular Location
Cytoplasm. Nucleus, nucleolus. Nucleus

EXOSC3 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EXOSC3 antibody - middle region - Images



Rabbit Anti-EXOSC3 Antibody
Paraffin Embedded Tissue: Human Intestine
Cellular Data: Epithelial cells of intestinal villas
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

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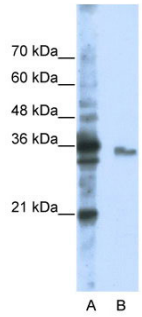

WB Suggested Anti-EXOSC3 Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat cell lysate

EXOSC3 antibody - middle region - References

Lehner,B. (2004) Genome Res. 14 (7), 1315-1323Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.