SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-EXOSC3 antibody

Catalog Number: SL23099R

FOR RESEARCH USE ONLY

[DATASHEET]

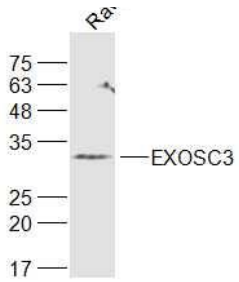
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	EXOSC3
Immunogen:	KLH conjugated synthetic peptide derived from human EXOSC3: 101-200/275
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Chicken,Horse,Rabbit,Sheep)
Predicted MW.:	29kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	The exosome is a multisubunit complex of 3’ to 5’ exoribonucleases. It is involved in a variety of cellular processes and is responsible for degrading unstable mRNAs that contain AU-rich elements in their untranslated 3’ region. EXOSC3 (exosome component 3), also known as p10, CGI-102, RRP40 (Ribosomal RNA-processing protein 40), Rrp40p or hRrp40p, is a component of the exosome multienzyme ribonuclease complex. Localizing to the cytoplasm and nucleolus, EXOSC3 contains a putative S1 RNA-binding domain and is capable of binding RNA. EXOSC3 is a component of the top cap of the exosome and is essential for exosome stability. In addition, EXOSC3 is required for the processing of the 7S pre-RNA to the mature 5.8S rRNA. **Function:** EXOSC3 is a component of the exosome 3'->5' exoribonuclease complex, a complex that degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions. It is required for the

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	3'processing of the 7S pre-RNA to the mature 5.8S rRNA. Has a 3'-5' exonuclease activity. [Swiss-Prot] **Subunit:** Component of the RNA exosome complex. Specifically part of the catalytically inactive RNA exosome core (Exo-9) complex which is believed to associate with catalytic subunits EXOSC10, and DIS3 or DIS3L in cytoplasmic- and nuclear-specific RNA exosome complex forms. Exo-9 is formed by a hexameric ring of RNase PH domain-containing subunits specifically containing the heterodimers EXOSC4-EXOSC9, EXOSC5-EXOSC8 and EXOSC6-EXOSC7, and peripheral S1 domain-containing components EXOSC1, EXOSC2 and EXOSC3 located on the top of the ring structure. Interacts with GTPBP1. Interacts with ZC3HAV1. Interacts with DDX17 only in the presence of ZC3HAV1 in an RNA-independent manner. **Subcellular Location:** Cytoplasm. Nucleus, nucleolus. DISEASE: Defects in EXOSC3 are the cause of pontocerebellar hypoplasia type 1B (PCH1B) [MIM:614678]. A severe autosomal recessive neurologic disorder characterized by a combination of cerebellar and spinal motor neuron degeneration beginning at birth. There is diffuse muscle weakness, progressive microcephaly, global developmental delay, and brainstem involvement. **Similarity:** Belongs to the RRP40 family. **Database links:** **Entrez Gene:** 51010 Human **Entrez Gene:** 66362 Mouse **Entrez Gene:** 313243 Rat Omim: 606489 Human **SwissProt:** Q9NQT5 Human **SwissProt:** Q7TQK4 Mouse **Unigene:** 602571 Human

[VALIDATION IMAGES]



Sample:
Raw264.7(Human) Cell Lysate at 30 ug
Primary: Anti-EXOSC3 (SL23099R) at 1/300 dilution

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Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 29 kD
Observed band size: 29 kD

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