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Rabbit Anti-DIS3L2/Cy5 Conjugated antibody

SL9053R-Cy5

Product Name	Anti-DIS3L2/Cy5
Chinese Name	Cy5 标记的有丝分裂控制蛋白样 DIS3L2 抗体
Alias	DIS3 L2; DIS3 mitotic control homolog (S. cerevisiae) like 2; DIS3 mitotic control homolog like 2; FLJ36974; MGC42174; DI3L2_HUMAN.
Research Area	Cardiovascular Cell biology immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Sheep)
Applications	Flow-Cyt=2ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	99kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DIS3L2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** The exosome is a multisubunit complex composed of several highly conserved subunits, some of which are 3’ to 5’ exoribonucleases. The complex is involved in a variety of cellular processes and is responsible for degrading unstable mRNAs that contain AU-rich (ARE) elements in their untranslated 3’ region. DIS3L2 (DIS3-like exonuclease 2) is an 885 amino acid protein that is thought to function as an exonuclease and may be required for the 3’ processing of pre-mRNA into mature mRNA. Defects or chromosomal

translocations involving the gene encoding DIS3L2 may be associated with Marfanoid habitus, a genetic disorder characterized by abnormalities in the skeleton, eyes and cardiovascular system. DIS3L2 is expressed as five isoforms due to alternative splicing events.

Function:
Ribonuclease that plays a critical role in RNA metabolism. It is essential for correct mitosis, and negatively regulates cell proliferation.

Subcellular Location:
Cytoplasm.

DISEASE:
Defects in DIS3L2 are the cause of Perlman syndrome (PRLMNS) [MIM:267000]. An autosomal recessive congenital overgrowth syndrome. Affected children are large at birth, are hypotonic, and show organomegaly, characteristic facial dysmorphisms (inverted V-shaped upper lip, prominent forehead, deep-set eyes, broad and flat nasal bridge, and low-set ears), renal anomalies (nephromegaly and hydronephrosis), frequent neurodevelopmental delay, and high neonatal mortality. Perlman syndrome is associated with a high risk of Wilms tumor. Histologic examination of the kidneys in affected children shows frequent nephroblastomatosis, which is a precursor lesion for Wilms tumor.

Similarity:
Belongs to the RNR ribonuclease family.

Database links:

Entrez Gene: 129563 Human

Entrez Gene: 208718 Mouse

Entrez Gene: 367307 Rat

Omim: 614184 Human

SwissProt: Q8IYB7 Human

SwissProt: Q8CI75 Mouse

Unigene: 732236 Human

Unigene: 389152 Mouse

Unigene: 2940 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.