

DIS3L2 Antibody
Catalog # ASC11955**Specification****DIS3L2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	Q8IYB7
Other Accession	NP_689596 , 134288890
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 97 kDa; Observed: 94 kDa
Application Notes	DIS3L2 antibody can be used for detection of DIS3L2 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

DIS3L2 Antibody - Additional InformationGene ID **129563****Target/Specificity**

DIS3L2; DIS3L2 antibody is human, mouse and rat reactive. At least three isoforms of DIS3L2 are known to exist; this antibody will only detect the longest isoform. DIS3L2 is predicted to not cross-react with DIS3 or DIS3L.

Reconstitution & Storage

DIS3L2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

DIS3L2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DIS3L2 Antibody - Protein Information**Name** DIS3L2 {ECO:0000255|HAMAP-Rule:MF_03045}**Synonyms** FAM6A**Function**

3'-5'-exoribonuclease that specifically recognizes RNAs polyuridylated at their 3' end and mediates their degradation. Component of an exosome-independent RNA degradation pathway that mediates degradation of both mRNAs and miRNAs that have been polyuridylated by a terminal uridylyltransferase, such as ZCCHC11/TUT4. Mediates degradation of cytoplasmic mRNAs that have been deadenylated and subsequently uridylated at their 3'. Mediates degradation of uridylated pre-let-7 miRNAs, contributing to the maintenance of embryonic stem (ES) cells. Essential for correct mitosis, and negatively regulates cell proliferation.

Cellular Location

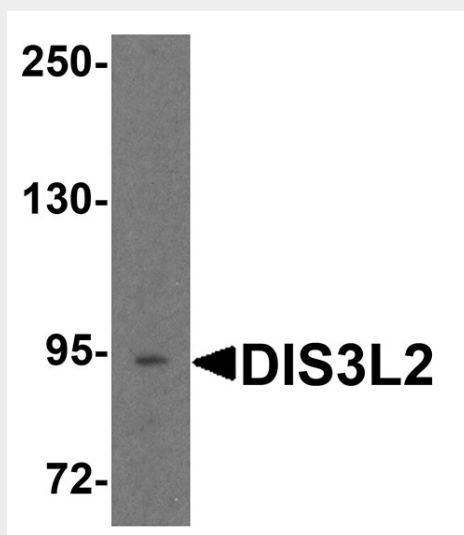
Cytoplasm. Cytoplasm, P-body

DIS3L2 Antibody - Protocols

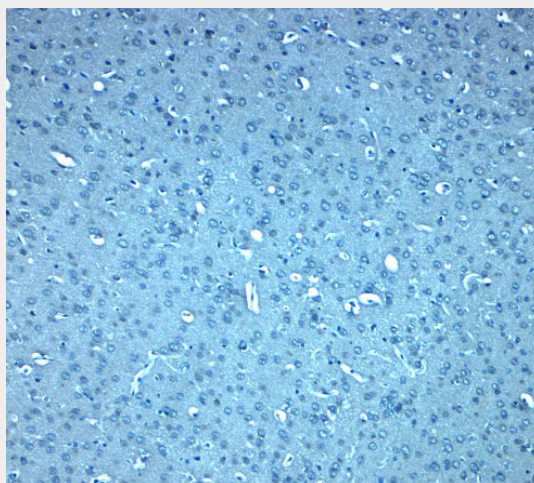
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DIS3L2 Antibody - Images



Western blot analysis of DIS3L2 in 3T3 cell lysate with DIS3L2 antibody at 1 µg/ml.



Immunohistochemistry of DIS3L2 in rat brain tissue with DIS3L2 antibody at 5 µg/mL.

DIS3L2 Antibody - Background

The exosome is involved in a multitude of cellular RNA processing and degradation events (1). DIS3, also known as exosome complex exonuclease RRP44, is a ribonuclease that acts directly in the processing, turnover, and surveillance of a large number of distinct RNA species (2). DIS3L2 is a paralog of DIS3, but unlike DIS3 is located in the cytoplasm (3). DIS3L2 defines a novel eukaryotic RNA degradation pathway and preferentially targets uridylated RNA (4). DIS3L2 mutations have also been associated with sporadic Wilms tumors (3).

DIS3L2 Antibody - References

Chen CY, Gherzi R, Ong SE, et al. AU binding proteins recruit the exosome to degrade ARE-containing mRNAs. *Cell* 2001; 107:451-64.
Brouwer R, Allmang C, Raijmakers R, et al. Three novel components of the human exosome. *J. Biol. Chem.* 2001; 276:6177-84.
Astuti D, Morris MR, Cooper WN, et al. Germline mutations in DIS3L2 cause the Perlman syndrome of overgrowth and Wilms tumor susceptibility. *Nat. Genet.* 2012; 44:277-84.
Malecki M, Viegas SC, Carneiro T, et al. The exonuclease Dis3L2 defines a novel eukaryotic RNA degradation pathway. *EMBO J.* 2013; 32:1842-54.