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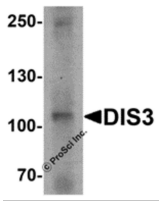
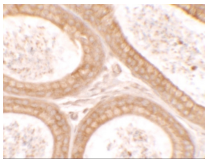
DIS3 Antibody

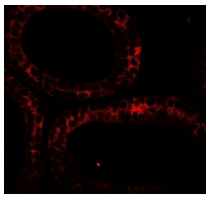
Cat. No.: 7343



DIS3 Antibody



Immunohistochemistry of DIS3 in mouse testis tissue with DIS3 antibody at 2.5 µg/ml.



Immunofluorescence of DIS3 in mouse testis tissue with DIS3 antibody at 20 µg/ml.

Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	DIS3 antibody was raised against an 18 amino acid peptide near the amino terminus of human DIS3. The immunogen is located within amino acids 90 - 140 of DIS3.
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	DIS3 antibody can be used for detection of DIS3 by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

SPECIFICITY:	Multiple isoforms of DIS3 are known to exist.
POSITIVE CONTROL:	1) Cat. No. 1316 - Human Ovary Tissue Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 105 kDa Observed: 103 kDa

Properties

PURIFICATION:	DIS3 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	DIS3 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	DIS3 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year.

Additional Info

OFFICIAL SYMBOL:	DIS3
ALTERNATE NAMES:	DIS3 Antibody: RRP44, dis3p, EXOSC11, KIAA1008, 2810028N01Rik, RRP44, Exosome complex exonuclease RRP44, Protein DIS3 homolog
ACCESSION NO.:	NP_055768
PROTEIN GI NO.:	190014623
GENE ID:	22894
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	DIS3 Antibody: The exosome is involved in a multitude of cellular RNA processing and degradation events. 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. DIS3 localizes to both the cytoplasm and the nucleus and contains one PINc domain. It is widely expressed with highest expression in testis and is required for processing of 7S pre-RNA into a mature nuclear complex and, ultimately, for proper mitotic progression. Abnormal expression levels of DIS3 may be associated with colon cancer, suggesting a role for DIS3 in tumorigenesis.

REFERENCES:	1) Chen CY, Gherzi R, Ong SE, et al. AU binding proteins recruit the exosome to degrade ARE-containing mRNAs. Cell 2001; 107:451-64.
	2) Brouwer R, Allmang C, Raijmakers R, et al. Three novel components of the human exosome. J. Biol. Chem. 2001; 276:6177-84.
	3) Schneider C, Anderson JT, Tollervey D, et al. The exosome subunit Rrp44 plays a direct role in RNA substrate recognition. Mol. Cell 2007; 27:324-31.
	4) Murakami H, Goto DB, Toda T, et al. Ribonuclease activity of DIS3 is required for mitotic progression and provides a possible link between heterochromatin and kinetochore function. PLoS ONE 2007; 2:317.

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