



NONO mouse mAb

Catalog No	YP-mAb-18137
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NONO NRB54
Immunogen	Synthesized peptide derived from human NONO
Specificity	This antibody detects endogenous levels of NONO at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	54 kDa nuclear RNA- and DNA-binding protein;55 kDa nuclear protein;NonO protein;Non-POU domain-containing octamer-binding protein;NRB54;NONO;NONO NRB54;Non-POU domain-containing octamer-binding protein (NonO protein) (54 kDa nuclear RNA- and DNA-binding protein) (55 kDa nuclear protein) (DNA-binding p52/p100 complex;52 kDa subunit) (NMT55) (p54(nrb); 52 kDa subunit) (NMT55) (p54(nrb)
Observed Band	54 kDa
Calculated Molecular Weight	54 kDa
Cell Pathway	Nucleus . Nucleus, nucleolus. Nucleus speckle . Chromosome . Detected in punctate subnuclear structures often located adjacent to splicing speckles, called paraspeckles. .
Tissue Specificity	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Also found in a number of breast tumor cell lines.
Function	DNA- and RNA binding protein, involved in several nuclear processes . Binds the conventional octamer sequence in double-stranded DNA . Also binds single-stranded DNA and RNA at a site independent of the duplex site . Involved in pre-mRNA splicing, probably as a heterodimer with SFPQ . Interacts with U5 snRNA, probably by binding to a purine-rich sequence located on the 3' side of U5



snRNA stem 1b . Together with PSPC1 , required for the formation of nuclear paraspeckles . The SFPQ-NONO heteromer associated with MATR3 may play a role in nuclear retention of defective RNAs . The SFPQ-NONO heteromer may be involved in DNA unwinding by modulating the function of topoisomerase I/ TOP1 . The SFPQ-NONO heteromer may be involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination and may stabilize paired DNA ends . In vitro, the complex strongly

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images