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Datasheet for ABIN2746950

NONO Protein

Overview

Quantity:	5 applications
Target:	NONO
Origin:	Human, Mouse, Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB), Positive Control (PC)

Product Details

Purpose:	Purified Protein in ready-to-use SDS sample buffer.
Characteristics:	<p>NonO-selective antibodies were generated against a 17mer peptide taken from the mid- region of the NonO protein. The NonO-selective antibodies are affinity purified on an immobilized antigen based affinity matrix, the isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. The anti-NonO-selective antibodies are fully characterized for applications in western blotting and ELISA at the recommended dilutions. The Supplier provides NonO Western blot positive control samples in SDS-PAGE sample buffer.</p> <p>Synonyms: Non-POU domain containing Octamer-binding protein, NonO</p>
Purification:	Purified Protein

Target Details

Target:	NONO
Alternative Name:	Nmt55 / p54nrb (NONO Products)

Target Details

Background: NonO is a 57 kDa ubiquitously expressed nucleic acid binding protein with their main function in transcriptional and post transcriptional gene regulatory functions as well as DNA repair. It binds to both DNA and RNA via its functionally separable domains. It has a tandem arrayed RNP and a putative HTH followed by a region rich in both acidic and basic amino acid residues. NonO binds to double-stranded DNA by its HTH domain and it binds with less sequence specificity by its RNP domain to RNA (or single-stranded DNA). Binding of RNA and dsDNA can occur simultaneously indicating that the RNP and HTH domains function independently. NonO belongs to the Drosophila/human splicing (DBHS) family that includes SFPQ, PSPC1 and invertebrate NONA and Hrp65. All DBHS proteins have a conserved region of approximately 300 AA. They differ only in the N- and the C-terminal extensions differing in their length with its extra polypeptide consisting of polyproline/glutamine-rich low-complexity regions and functional sequences including nuclear localization signals. NonO proteins are predominantly nuclear and they stimulate no homologous end joining (NHEJ) and represses homologous recombination. Defects in the NonO protein have significantly increased the chromosomal aberrations in human cells indicating its importance in DNA repair as its major function. They are involved in the regulation of circadian rhythm, carcinogenesis, and progression of cancer. NonO protein also interacts with RASD1 and regulates the circadian rhythms in biological clocks.

Molecular Weight: 57 kDa

UniProt: [Q15233](#)

Application Details

Application Notes: Antibodies were tested in ELISA and western blotting applications at 1:500 dilution using ABIN1686765 samples. Antibody dilutions for these antibodies are for reference only, investigators are expected to determine the optimal conditions. Application of this antibody in other protocols has not yet tested.

WB: > 1:500

IMM & IP pull-down assays: N.D. .

IHC: N.D. .

Investigators using this antibody in protocols other than listed above can request a complimentary sample of this antibody. N.D. not necessarily means the antibody is not suitable for that application, it simply means we have not yet characterized the antibody for that application.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	For 5 applications, volume varies from 100-200 µL in reduced SDS-PAGE sample buffer.
Storage:	-20 °C
Storage Comment:	-20 °C for long term storage