



## NusA (1NA2): sc-101609

### BACKGROUND

DNA replication is a complex process during which problems may lead to breaks in the replication fork, causing recombinational reactions to occur in order to restore DNA integrity. If this happens within repeated DNA sequences, genetic rearrangements may be produced. The bacterial UmuC/DinB family consists of bypass polymerases that are responsible for translesion DNA synthesis. DinB, also referred to as DNA polymerase IV in eukaryotes, is an error-prone bacterial DNA polymerase that plays a role in DNA damage-induced mutagenesis by preferentially making frameshift mutations. NusA is an essential bacterial protein that interacts with DinB and plays important role in transcriptional regulation (specifically transcriptional termination) and DNA repair mechanisms.

### REFERENCES

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### SOURCE

NusA (1NA2) is a mouse monoclonal antibody raised against amino acids 343-494 of NusA of *E. coli* origin.

### PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

NusA (1NA2) is recommended for detection of NusA of *E. coli* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.