

Rabbit Anti-SNM1/Cy5.5 Conjugated antibody

SL12654R-Cy5. 5

Product Name	Anti-SNM1/Cy5.5
Chinese Name	Cy5.5 标记的 DNA 交联修复基因 SNM1 抗体
Alias	DCLRE1A; DNA cross link repair 1A; DNA cross link repair gene SNM1; PSO2.
Research Area	Cell biology Cyclin Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Horse,Rabbit) ICC/IF=1:50-200,IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	116kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SNM1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: This gene encodes a conserved protein that is involved in the repair of DNA interstrand cross-links. DNA cross-links suppress transcription, replication, and DNA segregation. The encoded protein is a regulator of the mitotic cell cycle checkpoint. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Function:

May be required for DNA interstrand cross-link repair. Also required for checkpoint mediated cell cycle arrest in early prophase in response to mitotic spindle poisons.

Subunit:

Binds constitutively to TP53BP1. Binds CDC27, which is itself a component of the anaphase promoting complex (APC). Binds PIAS1.

Subcellular Location:

Nuclear.

Tissue Specificity:

Expressed in brain, heart, kidney, liver, pancreas, placenta and skeletal muscle.

DISEASE:

In some cells it may be found in typically 1 or 2 discrete nuclear aggregates of unknown function which also contain TP53BP1. Also found in multiple discrete nuclear foci which increase in number following treatment with ionizing radiation or interstrand cross-linking agents. These foci overlap with those formed by the MRN complex (composed of MRE11A, RAD50 and NBN) and BRCA1.

Similarity:

Belongs to the DNA repair metallo-beta-lactamase (DRMBL) family.

Database links:

[Entrez Gene: 9937](#) Human

[Omim: 609682](#) Human

[SwissProt: Q6PJP8](#) Human

[Unigene: 1560](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.