

## DNA Ligase 1 Antibody

Mouse Monoclonal Antibody [Clone 1A9]

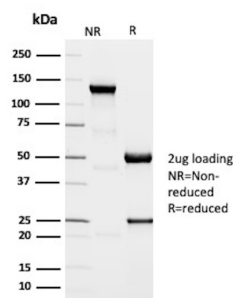
Catalog No	Format	Size
3978-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3978-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3978-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

Product Details	
Clone	1A9
Gene Name	LIG1
Immunogen	Full-length native cow LIG1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	133kDa
Cellular Localization	Nucleus
Species Reactivity	Bovine, Human, Mouse, Rat
Positive Control	Molt-4, PC-3 or Jurkat cell lysates.

\*Optimal dilution for a specific application should be determined.

### Product Images for DNA Ligase 1 Antibody



SDS-PAGE Analysis of Purified DNA Ligase 1 Mouse Monoclonal Antibody (1A9). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

DNA Ligase I maintains the major DNA Ligase activity in proliferating cells by joining Okazaki fragments during lagging strand DNA replication. Human DNA Ligase I also has an essential role in DNA repair pathways, where it catalyzes the formation of phosphodiester bonds between adjacent 5' phosphoryl and 3' hydroxy termini at single breaks in duplex DNA molecules. In addition, DNA Ligase I plays a role in sealing nicks during excision repair. Similar to other DNA ligases, DNA Ligase I is built around a common catalytic core. Increased levels of DNA Ligase I are found in human tumors, as compared to benign tissues, as well as in peripheral blood lymphocytes. Furthermore, DNA Ligase I antisense ODNs syndrome (BS). Individuals with BS either have decreased levels of abnormally thermolabile DNA Ligase I or possess a dimeric form of this enzyme.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Infectious Disease, Nuclear Marker

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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