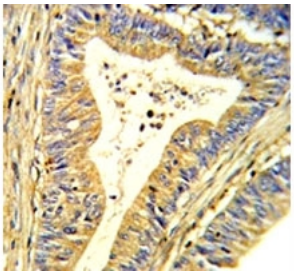
# SOD1 Antibody (F51318)

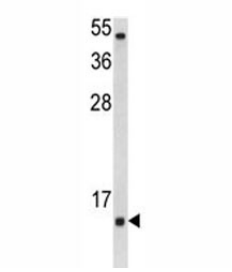
| Catalog No. | Formulation | Size |
|---|---|---|
| F51318-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F51318-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

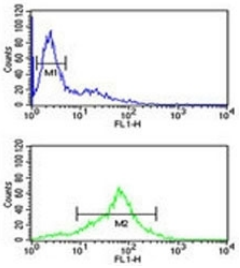
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity |
| **UniProt** | P00441 |
| **Applications** | Western blot: 1:1000<br>IHC (Paraffin): 1:50-1:100<br>Flow Cytometry: 1:10-1:50<br>Immunofluorescence: 1:10-1:50 |
| **Limitations** | This SOD1 antibody is available for research use only. |



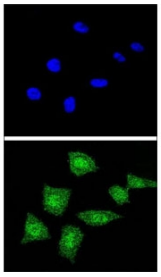
IHC analysis of FFPE human colon carcinoma stained with SOD1 antibody




Western blot analysis of SOD1 antibody and Jurkat lysate. Predicted molecular weight: ~16 kDa.



SOD1 antibody flow cytometric analysis of Jurkat cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of SOD1 antibody with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

## Description

SOD1 binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. This isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein.

## Application Notes

Titration of the SOD1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 55-84 from the human protein was used as the immunogen for this SOD1 antibody.

## Storage

Aliquot the SOD1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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