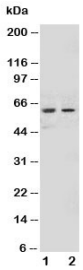
# NOX1 Antibody (R30829)

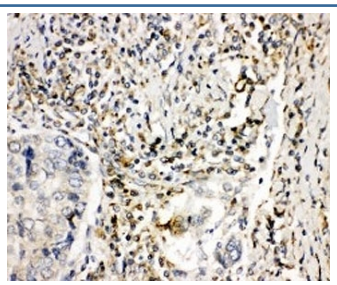
| Catalog No. | Formulation | Size |
|---|---|---|
| R30829 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | Q9Y5S8 |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml |
| **Limitations** | This NOX1 antibody is available for research use only. |




Western blot testing of NOX1 antibody and Lane 1: human HeLa; 2: human MCF-7 cell lysate.



IHC-P: NOX1 antibody testing of human lung cancer tissue. HIER: steam section in pH6 citrate buffer for 20 min.

## Description

NADPH Oxidase 1, also known as NOH1, MOX1 or GP91-2, is an enzyme that in humans is encoded by the NOX1 gene. It is also a homolog of the catalytic subunit of the superoxide-generating NADPH oxidase of phagocytes, gp91phox. NOX1 is expressed in colon, prostate, uterus, and vascular smooth muscle, but not in peripheral blood leukocytes. The deduced 564-amino acid protein, which is 58% identical to CYBB, contains 6 membrane-spanning regions, conserved flavin and pyridine nucleotide-binding sites, and histidines possibly involved in heme ligation. Overexpression of NOX1 in NIH 3T3 cells increased superoxide generation and cell growth. Cells expressing the protein had a transformed appearance, showed anchorage-independent growth, and produced tumors in athymic mice. Disruption of either Nox1 or Nox2 significantly delayed progression of motor neuron disease in these mice. However, 50% survival rates were enhanced significantly more by Nox2 deletion than Nox1 deletion.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the NOX1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Amino acids 354-374 (HIRAAGDWTENLIRAFEQQYS-human) were used as the immunogen for this NOX1 antibody.

## Storage

After reconstitution, the NOX1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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