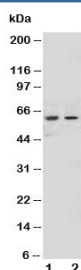


NOX1 Antibody (R30829)

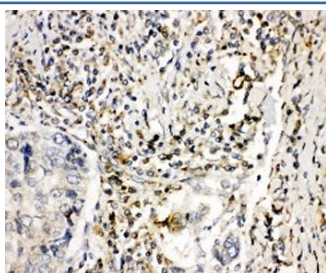
| Catalog No. | Formulation | Size |
|-------------|---|--------|
| R30829 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

Bulk quote request

| | |
|---------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Antigen affinity purified |
| 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 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.