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# NADPH oxidase 4 (AB1756) Rabbit mAb

## M3107

## Key Features

**Host Species**
• Rabbit

**Reactivity**
• Human, Mouse, Rat,

**Applications**
• WB, IF, IP, ELISA

**MW**
• 67 kDa (calculated)
• 67 kDa (observed)

**Isotype**
• IgG

## Recommended Dilution Ratios

| Application | Dilution |
|---|---|
| WB, IF, IP, ELISA | WB, 1:1000-1:5000 \| IF, 1:200-1:1000 \| IP, 0. 5 μg-4 μg antibody for 200 μg-400 μg extracts of whole cells. \| ELISA, Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Storage

| | |
|---|---|
| **Storage Conditions** | Store at-20℃. Avoid freeze / thaw cycles. |
| **Storage buffer** | The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300. |

## Basic Information

| | |
|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | AB1756 |
| **Immunogen** | Recombinant protein (or fragment). This information is considered to be commercially sensitive. |
| **Specificity** | This antibody detects endogenous levels of NADPH oxidase 4 protein. |
| **Purification** | Affinity purification Protein A |
| **Concentration** | Product concentration may vary by batch. Please refer to the product COA for details. |

## Target Information

| | |
|---|---|
| **Gene name** | NOX4 RENOX |
| **Protein Name** | NADPH oxidase 4 |

**Database Link**

| Organism | Swiss Prot. | Gene ID |
|---|---|---|
| Human | Q9NPH5 | 50507 |

**Background**

**This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS) . The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009],**