

## ARG59888 anti-NOX5 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Product Description | Rabbit Polyclonal antibody recognizes NOX5                                          |
| Tested Reactivity   | Hu                                                                                  |
| Tested Application  | ICC/IF, IHC-P, WB                                                                   |
| Host                | Rabbit                                                                              |
| Clonality           | Polyclonal                                                                          |
| Isotype             | IgG                                                                                 |
| Target Name         | NOX5                                                                                |
| Species             | Human                                                                               |
| Immunogen           | Synthetic peptide corresponding to aa. 747-765 of Human NOX5. (KVLKGHCCKFGFRFFQENF) |
| Conjugation         | Un-conjugated                                                                       |
| Alternate Names     | NADPH oxidase 5; EC 1.6.3.-                                                         |

### Application Instructions

| Application table | Application                                                                                                                                                                                             | Dilution        |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                   | ICC/IF                                                                                                                                                                                                  | 0.5 - 1 µg/ml   |
|                   | IHC-P                                                                                                                                                                                                   | 0.5 - 1 µg/ml   |
|                   | WB                                                                                                                                                                                                      | 0.1 - 0.5 µg/ml |
| Application Note  | IHC-P: Antigen Retrieval: Heat mediation was recommended.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |
| Observed Size     | ~ 85 kDa                                                                                                                                                                                                |                 |

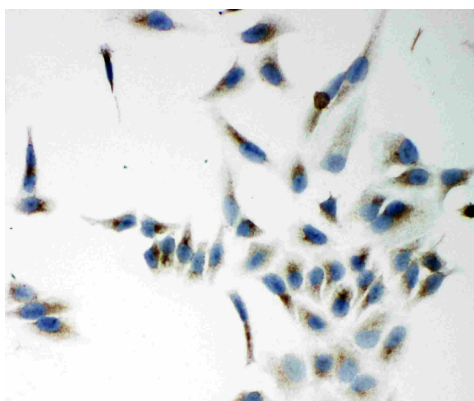
### Properties

|                     |                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                                                                                                                                                                     |
| Purification        | Affinity purification with immunogen.                                                                                                                                                                                                                                                                                      |
| Buffer              | 0.2% Na2HPO4, 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.                                                                                                                                                                                                                                                  |
| Preservative        | 0.05% Thimerosal and 0.05% Sodium azide                                                                                                                                                                                                                                                                                    |
| Stabilizer          | 5% BSA                                                                                                                                                                                                                                                                                                                     |
| Concentration       | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

## Bioinformation

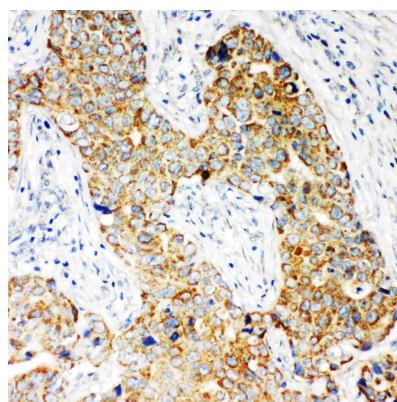
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Symbol           | NOX5                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Full Name        | NADPH oxidase, EF-hand calcium binding domain 5                                                                                                                                                                                                                                                                                                                                                                                                        |
| Background            | This gene is predominantly expressed in the testis and lymphocyte-rich areas of spleen and lymph nodes. It encodes a calcium-dependen NADPH oxidase that generates superoxide, and functions as a calcium-dependent proton channel that may regulate redox-dependent processes in lymphocytes and spermatozoa. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011] |
| Function              | Calcium-dependent NADPH oxidase that generates superoxide. Also functions as a calcium-dependent proton channel and may regulate redox-dependent processes in lymphocytes and spermatozoa. May play a role in cell growth and apoptosis. Isoform v2 and isoform v5 are involved in endothelial generation of reactive oxygen species (ROS), proliferation and angiogenesis and contribute to endothelial response to thrombin. [UniProt]               |
| Calculated Mw         | 86 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cellular Localization | Membrane; Multi-pass membrane protein. Isoform v2: Endoplasmic reticulum. Isoform v5: Endoplasmic reticulum. [UniProt]                                                                                                                                                                                                                                                                                                                                 |

## Images



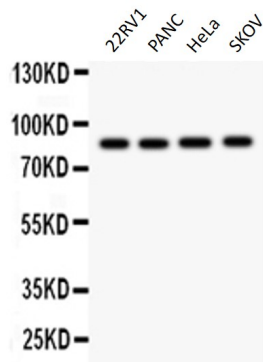
ARG59888 anti-NOX5 antibody ICC image

Immunocytochemistry: HeLa cells stained with ARG59888 anti-NOX5 antibody.



ARG59888 anti-NOX5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue stained with ARG59888 anti-NOX5 antibody.



#### ARG59888 anti-NOX5 antibody WB image

Western blot: 40 µg of 22RV1, PANC, HeLa and SKOV whole cell lysates stained with ARG59888 anti-NOX5 antibody at 0.5 µg/ml dilution.