Product datasheet

Anti-NOX4 Antibody

Catalog Number: *A00403*

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Basic Information

Product Name	Anti-NOX4 Antibody
Gene Name	NOX4
Source	Rabbit
Isotype	IgG
Species Reactivity	human,monkey
Tested Application	WB,ICC/IF
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence of human NADPH oxidase 4 (ILNTLLDDWKPYKLRRLYFIWVCRDIQSFRWFADLL).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400

Storage

12 months from date of receipt, -20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

NADPH oxidase 4 is an enzyme that in humans is encoded by the NOX4 gene, and is a member of the NOX family of NADPH oxidases. 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.

Reference

Anti-NOX4 Antibody被引用在1文献中。

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Selected Validation Data

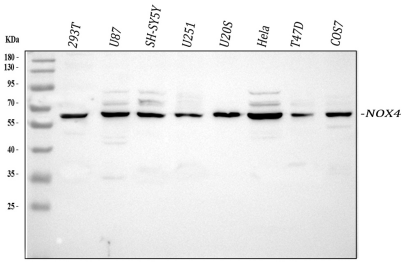

Figure 1. Western blot analysis of anti-NOX4 antibody (A00403). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human 293T whole cell lysates,
Lane 2: human U87 whole cell lysates,
Lane 3: human SH-SY5Y whole cell lysates,
Lane 4: human U251 whole cell lysates,
Lane 5: human U2OS whole cell lysates,
Lane 6: human Hela whole cell lysates,
Lane 7: human T47D whole cell lysates,
Lane 8: monkey COS-7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NOX4 antigen affinity purified polyclonal antibody (A00403) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NOX4 at approximately 65 kDa. The expected band size for NOX4 is at 67 kDa.

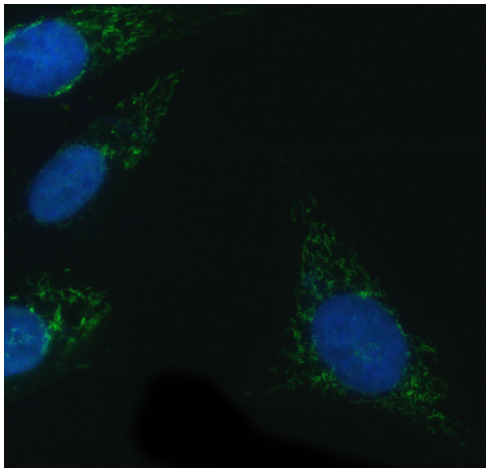

Figure 2. IF analysis of NOX4 using anti-NOX4 antibody (A00403). NOX4 was detected in an immunocytochemical section of U2OS cells. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).