

Basic Information

Product Name	Anti-NOX4 Antibody (Clone#E-14)	
Gene Name	NOX4	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human NOX4	
Concentration	500ug/ml	
Purification	Affinity-chromatography	
Observed MW	65 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20

Storage

12 months from date of receipt, -20°C as supplied.

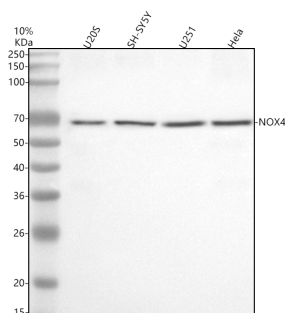
Background Information

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 (Clone#E-14)被引用在15文献中。

Selected Validation Data



Western blot analysis of anti-NOX4 antibody (BM4135). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

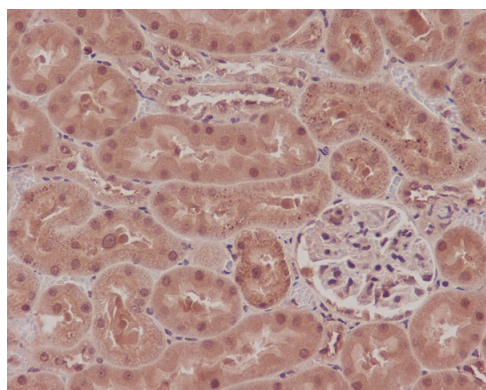
Lane 1: human U20S whole cell lysates,

Lane 2: human SH-SY5Y whole cell lysates,

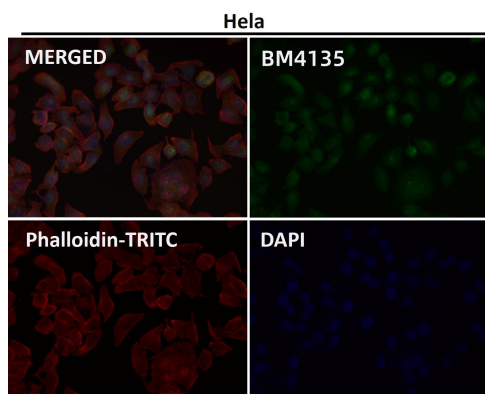
Lane 3: human U251 whole cell lysates,

Lane 4: human Hela whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NOX4 antigen affinity purified monoclonal antibody (BM4135) at a dilution of 1:1000 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 67 kDa. The expected band size for NOX4 is at 67 kDa.



Immunohistochemical analysis of paraffin-embedded rat kidney, using NOX4 Antibody .



Immunofluorescent analysis using the Antibody.