Datasheet for ABIN6144752

anti-NADPH Oxidase 4 antibody (AA 328-578)

5 Images

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Overview

Quantity:	100 µL
Target:	NADPH Oxidase 4 (NOX4)
Binding Specificity:	AA 328-578
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NADPH Oxidase 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 328-578 of human NOX4 (NP_058627.1).
Sequence:	KENFKARPGQ YITLHCPSVS ALENHPFTLT MCPTETKATF GVHLKIVGDW TERFRDLLLP PSSQDSEILP FIQSRNYPKL YIDGPFGSPF EESLNYEVSL CVAGGIGVTP FASILNTLLD DWKPYKLRRL YFIWVCRDIQ SFRWFADLLC MLHNKFWQEN RPDYVNIQLY LSQTDGIQKI IGEKYHALNS RLFIGRPRWK LLFDEIAKYN RGKTVGVFCC GPNSLSKTLH KLSNQNNSYG TRFEYNKESF S
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

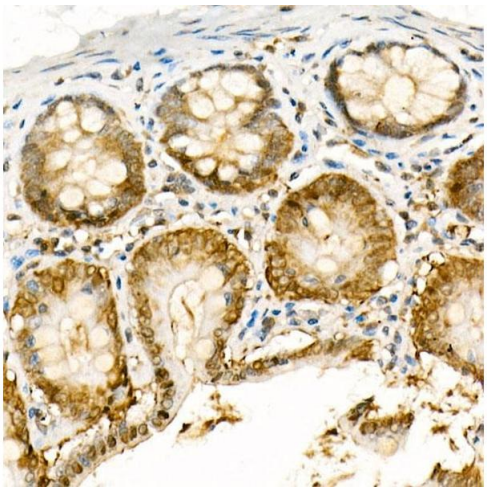
Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	NOX4 (NOX4 Products)
Background:	This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes 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.,NOX4,KOX,KOX-1,RENOX,Signal Transduction,Cell Biology & Developmental Biology,Endocrine & Metabolism,Drug metabolism,Immunology & Inflammation,Cardiovascular,Blood,Heart,Cardiovascular diseases,Heart disease,NOX4
Molecular Weight:	6 kDa/25-31 kDa/58-66 kDa
Gene ID:	50507
UniProt:	Q9NPH5
Pathways:	Carbohydrate Homeostasis, Smooth Muscle Cell Migration

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

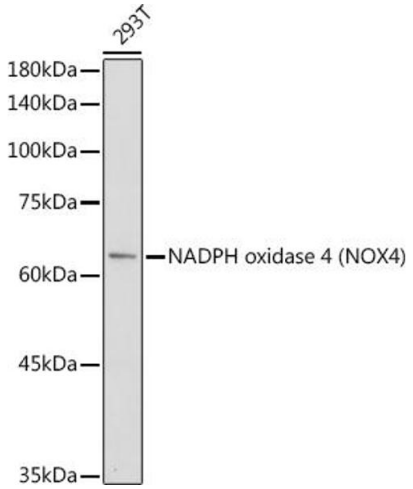
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



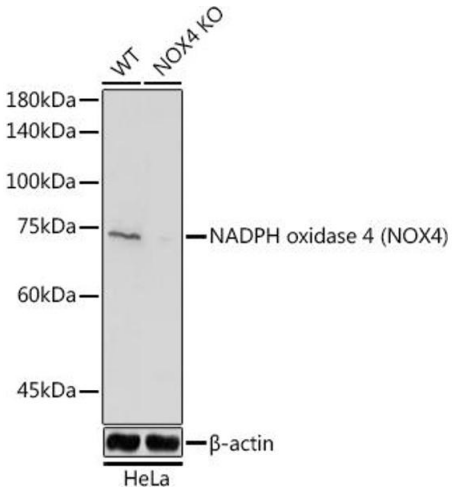
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat colon using [KO Validated] NADPH oxidase 4 (NOX4) Rabbit pAb (ABIN6128328, ABIN6144752, ABIN6144753 and ABIN6215143) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of 293T cells, using NADPH oxidase 4 (NOX4) antibody (ABIN6128328, ABIN6144752, ABIN6144753 and ABIN6215143) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.



Western Blotting

Image 3. Western blot analysis of extracts from normal (control) and NADPH oxidase 4 (NOX4) Rabbit pAb knockout (KO) HeLa cells, using NADPH oxidase 4 (NOX4) Rabbit pAb antibody (ABIN6128328, ABIN6144752, ABIN6144753 and ABIN6215143) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 60s.

Please check the product details page for more images. Overall 5 images are available for ABIN6144752.

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