Datasheet for ABIN3042993

anti-NOXA1 antibody (Middle Region)

1 Image

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Overview

Quantity:	100 µg
Target:	NOXA1
Binding Specificity:	AA 176-195, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOXA1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-NOXA1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human NOXA1.
Sequence:	RQVPRGEVFR PHRWHLKHLE
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-NOXA1 Antibody (ABIN3042993). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	NOXA1
Alternative Name:	NOXA1 (NOXA1 Products)
Background:	Synonyms: NADPH oxidase activator 1,NOX activator 1,Antigen NY-CO-31,NCF2-like protein,P67phox-like factor,p51-nox,NOXA1,P51NOX, Tissue Specificity: Widely expressed. Detected in pancreas, liver, kidney, spleen, prostate, small intestine and colon. . Background: NOXA1 (NADPH oxidase activator 1), also called NOX ACTIVATOR 1 or p51-NOX, is an enzyme that in humans is encoded by the NOXA1 gene. Hartz (2007) mapped the NOXA1 gene to chromosome 9q34.3 based on an alignment of the NOXA1 sequence with the genomic sequence (build 36.1). Banfi et al. (2003) mapped the mouse Noxa1 gene to chromosome 2. Using yeast 2-hybrid assays, Takeya et al. (2003) showed that human p51-NOX interacted with constitutively active forms of RAC1 and RAC2. In vitro binding assays revealed that p51-NOX bound GTP-bound RAC1, but not GDP-bound RAC1. p51-NOX also bound p47-PHOX (NCF1) and p41-NOX (NOXO1), and trp436 within the SH3 domain of p51-NOX was required for these interactions. Human cell lines or COS-7 cells cotransfected with p51-NOX and p41-NOX and either gp91-PHOX (CYBB) or NOX1 produced superoxide. Cells individually transfected with NOX1, p41-NOX, or p51-NOX and cells transfected with only p41-NOX and p51-NOX showed no superoxide production. Sequence Similarities: Belongs to the NCF2/NOXA1 family.
Molecular Weight:	60 kDa

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human 1. Banfi, B., Clark, R. A., Steger, K., Krause, K.-H. Two novel proteins activate superoxide generation by the NADPH oxidase NOX1. J. Biol. Chem. 278: 3510-3513, 2003. 2. Hartz, P. A. Personal Communication. Baltimore, Md. 7/25/2007. 3. Takeya, R., Ueno, N., Kami, K., Taura, M., Kohjima, M., Izaki, T., Nunoi, H., Sumimoto, H. Novel human homologues of p47(phox) and p67(phox) participate in activation of superoxide-producing NADPH oxidases. J. Biol. Chem. 278: 25234-25246, 2003.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

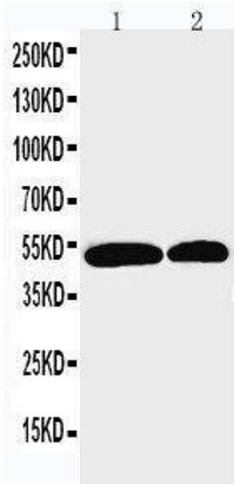
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-NOXA1 antibody, Western blotting Lane 1: U87 Cell Lysate Lane 2: HELA Cell Lysate