

## Anti-NOXA1 Antibody Picoband®

Catalog Number: PA1930

### About NOXA1

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.

### Overview

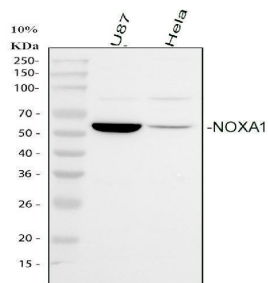
Product Name	Anti-NOXA1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-NOXA1 Antibody catalog # PA1930. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q86UR1

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NOXA1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

## Anti-NOXA1 Antibody Picoband® (PA1930) Images



Western blot analysis of NOXA1 using anti-NOXA1 antibody (PPA1930). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U87 whole cell lysates, Lane 2: human HeLa whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NOXA1 antigen affinity purified polyclonal antibody (Catalog # PA1930) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NOXA1 at approximately 60 kDa. The expected band size for NOXA1 is at 51 kDa.

### Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



### Anti-NOXA1 Antibody

For Research Use Only. Not for use in diagnostic procedures.