

Rabbit NAXE Polyclonal Antibody | anti-NAXE antibody

Anti-NAXE Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127660	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

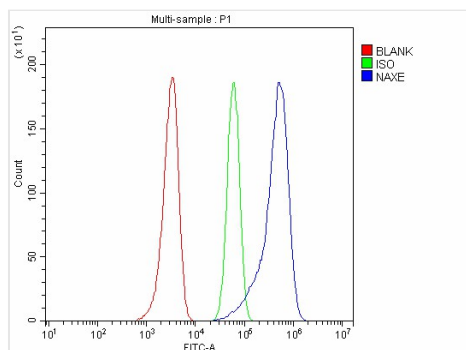
PRODUCT SYNONYMS

NAXE; Polyclonal Antibody; Anti-NAXE Antibody Picoband; anti-NAXE antibody

PRODUCT SPECIFICATIONS

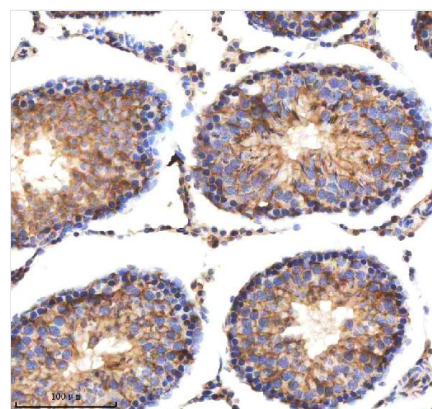
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NAXE antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NAXE recombinant protein (Position: R46-Q288). Human NAXE shares 93% and 94.2% amino acid (aa) sequence identity with mouse and rat NAXE, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



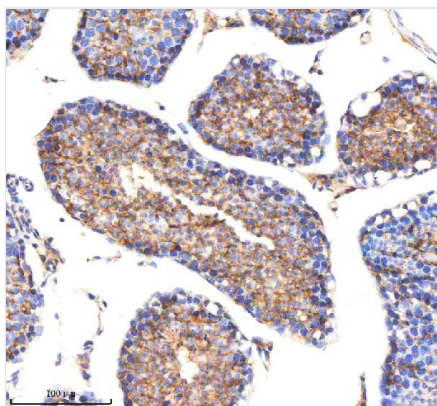
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HEL cells using anti-NAXE antibody (AAA127660). Overlay histogram showing HEL cells stained with AAA127660 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-NAXE Antibody (AAA127660, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



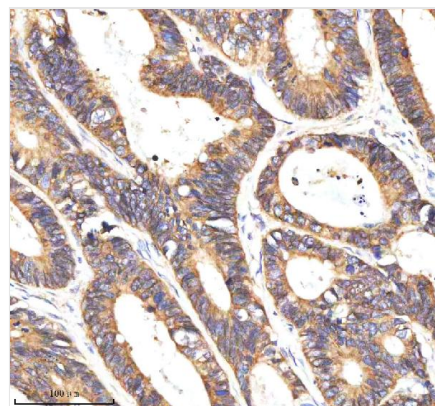
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NAXE using anti-NAXE antibody (AAA127660). NAXE was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NAXE Antibody (AAA127660) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



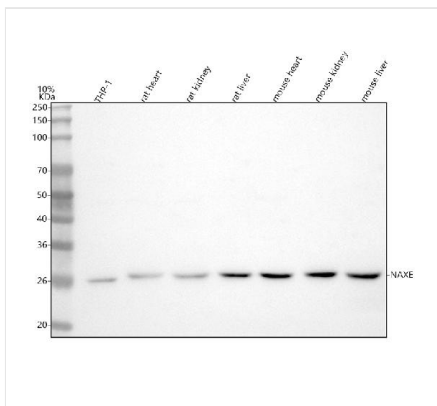
IHC (Immunohistochemistry)

Figure 3. IHC analysis of NAXE using anti-NAXE antibody (AAA127660). NAXE was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NAXE Antibody (AAA127660) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NAXE using anti-NAXE antibody (AAA127660). NAXE was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NAXE Antibody (AAA127660) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NAXE using anti-NAXE antibody (AAA127660). 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 THP-1 whole cell lysates, Lane 2: rat heart tissue lysates, Lane 3: rat kidney tissue lysates, Lane 4: rat liver tissue lysates, Lane 5: mouse heart tissue lysates, Lane 6: mouse kidney tissue lysates, Lane 7: mouse liver tissue 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-NAXE antigen affinity purified polyclonal antibody (#AAA127660) at 0.5ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for NAXE at approximately 26 kDa. The expected band size for NAXE is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NAXE antibody

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 Categories/Family for anti-NAXE antibody

Primary Antibodies

References	1. Fang, L., Choi, S.-H., Baek, J. S., Liu, C., Almazan, F., Ulrich, F., Wiesner, P., Taleb, A., Deer, E., Pattison, J., Torres-Vazquez, J., Li, A. C., Miller, Y. I. Control of angiogenesis by AIBP-mediated cholesterol efflux. <i>Nature</i> 498: 118-122, 2013. 2. Kremer, L. S., Danhauser, K., Herebian, D., Ramadza, D. P., Piekutowska-Abramczuk, D., Seibt, A., Muller-Felber, W., Haack T. B., Ploski, R., Lohmeier, K., Schneider, D., Klee, D., and 10 others. NAXE mutations disrupt the cellular NAD(P)HX repair system and cause a lethal neurometabolic disorder of early childhood. <i>Am. J. Hum. Genet.</i> 99: 894-902, 2016. 3. Marbaix, A. Y., Tyteca, D., Niehaus, T. D., Hanson, A. D., Linster, C. L., Van Schaftingen, E. Occurrence and subcellular distribution of the NAD(P)HX repair system in mammals. <i>Biochem. J.</i> 460: 49-58, 2014.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	91984773
NCBI GeneID	128240
NCBI Accession #	NP_658985.2
NCBI GenBank Nucleotide #	NM_144772.2
UniProt Accession #	Q8NCW5 ; Q496C6 ; Q5T3I2 ; B4DGY3
Molecular Weight	31,675 Da
NCBI Official Full Name	NAD(P)H-hydrate epimerase
NCBI Official Synonym Full Names	apolipoprotein A-I binding protein
NCBI Official Symbol	APOA1BP
NCBI Official Synonym Symbols	AIBP; YJEFN1
NCBI Protein Information	NAD(P)H-hydrate epimerase; NAD(P)H-hydrate epimerase; AI-BP; yjeF_N1; NAD(P)HX epimerase; apoA-I binding protein; apolipoprotein A-I-binding protein; yjeF N-terminal domain-containing protein 1
UniProt Protein Name	NAD(P)H-hydrate epimerase
UniProt Gene Name	APOA1BP
UniProt Synonym Gene Names	AIBP; YJEFN1; AI-BP; YjeF_N1
UniProt Entry Name	NNRE_HUMAN

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Online datasheet: <https://www.aaabiotech.com/polyclonal/naxe-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127660>