

Rabbit anti-Human NRF2/NFE2L2 Polyclonal Antibody | anti-NRF2/NFE2L2 antibody

Anti-NRF2/NFE2L2 Antibody Picoband

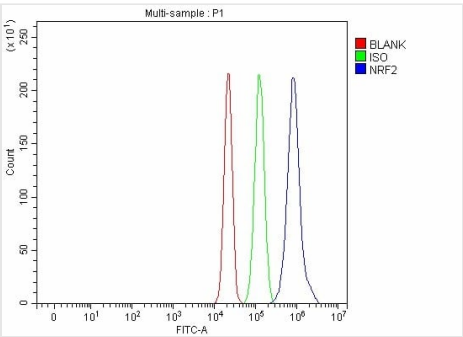
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126966	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

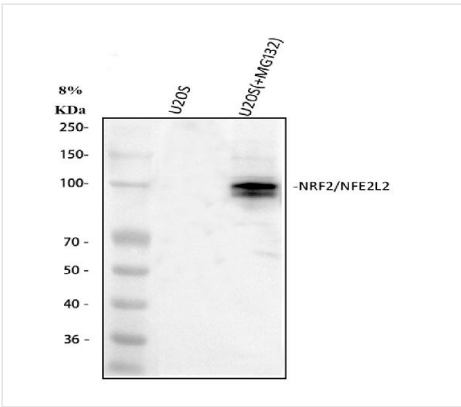
NRF2/NFE2L2; Polyclonal Antibody; Anti-NRF2/NFE2L2 Antibody Picoband; anti-NRF2/NFE2L2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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-NRF2/NFE2L2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human NRF2/NFE2L2 recombinant protein (Position: E67-D601).
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.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of RT4 cells using anti-NRF2/NFE2L2 antibody (AAA126966). Overlay histogram showing RT4 cells stained with AAA126966 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NRF2/NFE2L2 Antibody (AAA126966, 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.



WB (Western Blot)
Figure 1. Western blot analysis of NRF2/NFE2L2 using anti-NRF2/NFE2L2 antibody (AAA126966). 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 U20S whole cell lysates, Lane 2: human U20S(+MG132) 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-NRF2/NFE2L2 antigen affinity purified polyclonal antibody (#AAA126966) 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 NRF2/NFE2L2 at approximately 100-110 kDa. The expected band size for NRF2/NFE2L2 is at 68 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NRF2/NFE2L2 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-NRF2/NFE2L2 antibody	Primary Antibodies
References	1. Bambouskova, M., Gorvel, L., Lampropoulou, V., Sergushichev, A., Loginicheva, E., Johnson, K., Korenfeld, D., Mathyer, M. E., Kim, H., Huang, L.-H., Duncan, D., Bregman, H., and 19 others. Electrophilic properties of itaconate and derivatives regulate the I-kappa-B-zeta-ATF3 inflammatory axis. Nature 556: 501-504, 2018. 2. Bollong, M. J., Lee, G., Coukos, J. S., Yun, H., Zambaldo, C., Chang, J. W., Chin, E. N., Ahmad, I., Chatterjee, A. K., Lairson, L. L., Schultz, P. G., Moellering, R. E. A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling. Nature 562: 600-604, 2018. 3. Chan, J. Y., Cheung, M.-C., Moi, P., Chan, K., Kan, Y. W. Chromosomal localization of the human NF-E2 family of bZIP transcription factors by fluorescence in situ hybridization. Hum. Genet. 95: 265-269, 1995

NCBI AND UNIPROT INFORMATION

NCBI GI #	224028257
NCBI GeneID	4780
NCBI Accession #	NP_001138884.1
NCBI GenBank Nucleotide #	NM_001145412.2
UniProt Accession #	Q16236; Q53RW6; Q59HH2; Q96F71; B2RBU2; B4E338; E9PGJ7
Molecular Weight	67,827 Da
NCBI Official Full Name	nuclear factor erythroid 2-related factor 2 isoform 2
NCBI Official Synonym Full Names	nuclear factor (erythroid-derived 2)-like 2

NCBI Official Symbol	NFE2L2
NCBI Official Synonym Symbols	NRF2
NCBI Protein Information	nuclear factor erythroid 2-related factor 2; HEBP1; NFE2-related factor 2; NF-E2-related factor 2; nuclear factor erythroid-derived 2-like 2; nuclear factor, erythroid derived 2, like 2
UniProt Protein Name	Nuclear factor erythroid 2-related factor 2
UniProt Gene Name	NFE2L2
UniProt Synonym Gene Names	NRF2; NF-E2-related factor 2
UniProt Entry Name	NF2L2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nrf2-nfe2l2-antibody-western-blot-flow-cytometry-elisa/126966>