

Rabbit anti-Human NGEF Polyclonal Antibody | anti-NGEF antibody

Anti-NGEF Antibody Picoband

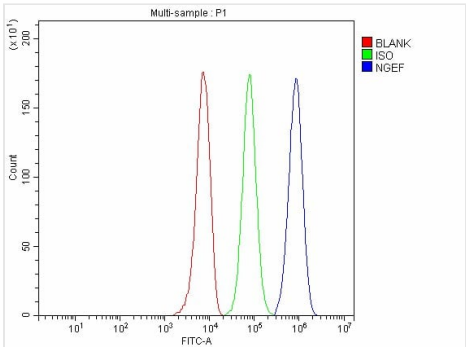
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127551	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

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

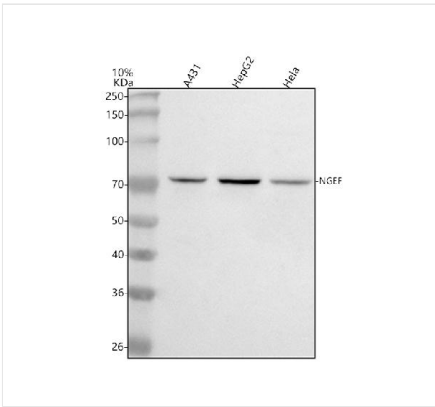
PRODUCT SPECIFICATIONS

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-NGEF antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human NGEF recombinant protein (Position: E82-Q627). Human NGEF shares 91.1% and 90.9% amino acid (aa) sequence identity with mouse and rat NGEF, 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-NGEF antibody (AAA127551).Overlay histogram showing HepG2 cells stained with AAA127551 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-NGEF Antibody (AAA127551, 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 NGEF using anti-NGEF antibody (AAA127551).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 A431 whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: 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-NGEF antigen affinity purified polyclonal antibody (#AAA127551) 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 NGEF at approximately 71 kDa. The expected band size for NGEF is at 82,71 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NGEF 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-NGEF antibody	Primary Antibodies
References	1. Frank, C. A., Pielage, J., Davis, G. W. A presynaptic homeostatic signaling system composed of the Eph receptor, Ephexin, Cdc42, and Cav2.1 calcium channels. Neuron 61: 556-569, 2009.2. Rodrigues, N. R., Theodosiou, A. M., Nesbit, M. A., Campbell, L., Tandle, A. T., Saranath, D., Davies, K. E. Characterization of Ngef, a novel member of the Dbl family of genes expressed predominantly in the caudate nucleus. Genomics 65: 53-61, 2000.3. Shamah, S. M., Lin, M. Z., Goldberg, J. L., Estrach, S., Sahin, M., Hu, L., Bazalakova, M., Neve, R. L., Corfas, G., Debant, A., Greenberg, M. E. EphA receptors regulate growth cone dynamics through the novel guanine nucleotide exchange factor ephexin. Cell 105: 233-244, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166197690
NCBI GeneID	25791
NCBI Accession #	NP_001107562.1
NCBI GenBank Nucleotide #	NM_001114090.1
UniProt Accession #	Q8N5V2; Q53QQ4; Q53ST7; Q6GMQ5; Q9NQD6; B4DMB8; B9A045; E9PC42
Molecular Weight	82,496 Da
NCBI Official Full Name	ephexin-1 isoform 2
NCBI Official Synonym Full Names	neuronal guanine nucleotide exchange factor

NCBI Official Symbol	NGEF
NCBI Official Synonym Symbols	EPHEXIN; ARHGEF27
NCBI Protein Information	ephexin-1; eph-interacting exchange protein
UniProt Protein Name	Ephexin-1
UniProt Gene Name	NGEF
UniProt Entry Name	NGEF_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/ngef-antibody-western-blot-flow-cytometry-elisa/127551>