

Rabbit anti-Mouse, Rat NPRL2 Polyclonal Antibody | anti-NPRL2 antibody

Anti-NPRL2 Antibody Picoband

CATALOG # AAA128205	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

NPRL2; Polyclonal Antibody; Anti-NPRL2 Antibody Picoband; GATOR1 complex protein NPRL2; NPR2 like; GATOR1 complex subunit; TUSC4; GATOR complex protein NPRL2; Gene 21 protein; G21 protein; Nitrogen permease regulator 2-like protein; NPR2-like protein; Tumor suppressor candidate 4; anti-NPRL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-NPRL2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NPRL2 recombinant protein (Position: D90-K380). Human NPRL2 shares 98.3% amino acid (aa) sequence identity with mouse NPRL2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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 2. Flow Cytometry analysis of HEL cells using anti-NPRL2 antibody (AAA128205).Overlay histogram showing HEL cells stained with AAA128205 (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-NPRL2 Antibody (AAA128205, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 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 NPRL2 using anti-NPRL2 antibody (AAA128205).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: rat skeletal muscle tissue lysates,Lane 2: mouse skeletal muscle 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-NPRL2 antigen affinity purified polyclonal antibody (AAA128205) 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 NPRL2 at approximately 48 kDa. The expected band size for NPRL2 is at 44 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NPRL2 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-NPRL2 antibody	Primary Antibodies
References	1. Bar-Peled, L., Chantranupong, L., Cherniack, A. D., Chen, W. W., Ottina, K. A., Grabiner, B. C., Spear, E. D., Carter, S. L., Meyerson, M., Sabatini, D. M. A tumor suppressor complex with GAP activity for the Rag GTPases that signal amino acid sufficiency to mTORC1. Science 340: 1100-1106, 2013.2. Gu, X., Orozco, J. M., Saxton, R. A., Condon, K. J., Liu, G. Y., Krawczyk, P. A., Scaria, S. M., Harper, J. W., Gygi, S. P., Sabatini, D. M. SAMTOR is an S-adenosylmethionine sensor for the mTORC1 pathway. Science 358: 813-818, 2017.3. Lerman, M. I., Minna, J. D. The 630-kb lung cancer homozygous deletion region on human chromosome 3p21.3: identification and evaluation of the resident candidate tumor suppressor genes. Cancer Res. 60: 6116-6133, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50592992
NCBI GeneID	10641
NCBI Accession #	NP_006536.3
NCBI GenBank Nucleotide #	NM_006545.4
UniProt Accession #	Q8WTW4; Q6FGS2; Q9Y249; Q9Y497; A8K831
Molecular Weight	23,150 Da
NCBI Official Full Name	nitrogen permease regulator 2-like protein
NCBI Official Synonym Full Names	NPR2-like, GATOR1 complex subunit
NCBI Official Symbol	NPRL2
NCBI Official Synonym Symbols	NPR2; NPR2L; TUSC4
NCBI Protein Information	nitrogen permease regulator 2-like protein
UniProt Protein Name	Nitrogen permease regulator 2-like protein
UniProt Gene Name	NPRL2
UniProt Synonym Gene Names	TUSC4; NPR2-like protein; G21 protein
UniProt Entry Name	NPRL2_HUMAN

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