

Rabbit anti-Mouse, Rat IL1RA/II1rn Polyclonal Antibody | anti-II1rn antibody

Anti-IL1RA/II1rn Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125566	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

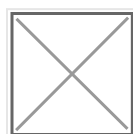
PRODUCT SYNONYMS

IL1RA/II1rn; Polyclonal Antibody; Anti-IL1RA/II1rn Antibody; II1rn; II-1ra; Interleukin-1 receptor antagonist protein; IL-1RN; IL-1ra; IRAP; IL1 inhibitor; interleukin 1 receptor antagonist; anti-II1rn antibody

PRODUCT SPECIFICATIONS

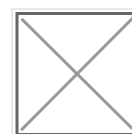
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IL1RA/II1rn detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-II1rn antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse IL1RA/II1rn recombinant protein (Position: K35-Q178).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of NRK cells using anti-IL1RA/II1rn antibody (AAA125566). Overlay histogram showing NRK cells stained with AAA125566 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IL1RA/II1rn Antibody (AAA125566, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-IL1RA/II1rn antibody (AAA125566). Overlay histogram showing HEPA1-6 cells stained with AAA125566 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IL1RA/II1rn Antibody (AAA125566, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of IL1RA/IL1rn using anti-IL1RA/IL1rn antibody (AAA125566). 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 30ug of sample under reducing conditions. Lane 1: rat spleen tissue lysates Lane 2: rat brain tissue lysates Lane 3: rat thymus tissue lysates Lane 4: rat kidney tissue lysates Lane 5: rat PC-12 whole cell lysates Lane 6: mouse spleen tissue lysates Lane 7: mouse kidney tissue lysates Lane 8: mouse RAW264. 7 whole cell lysates Lane 9: mouse NIH/3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-IL1RA/IL1rn antigen affinity purified polyclonal antibody (Catalog # AAA125566) at 0. 5 μg/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 IL1RA/IL1rn at approximately 18KD. The expected band size for IL1RA/IL1rn is at 18KD.

ADDITIONAL INFORMATION

Related Product Information for anti-IL1rn antibody	The interleukin-1 receptor antagonist (IL-1RA) is a protein that in humans is encoded by the IL1RN gene. The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.
References	1. "Entrez Gene: IL1RN interleukin 1 receptor antagonist". 2. Patterson D, Jones C, Hart I, Bleskan J, Berger R, Geyer D, Eisenberg SP, Smith MF, Arend WP (January 1993). "The human interleukin-1 receptor antagonist (IL1RN) gene is located in the chromosome 2q14 region". Genomics. 15 (1): 173-6. 3. Steinkasserer A, Spurr NK, Cox S, Jeggo P, Sim RB (July 1992). "The human IL-1 receptor antagonist gene (IL1RN) maps to chromosome 2q14-q21, in the region of the IL-1 alpha and IL-1 beta loci". Genomics. 13(3): 654-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	89257344
NCBI GeneID	16181
NCBI Accession #	NP_001034790.1
NCBI GenBank Nucleotide #	NP_001034790.1
UniProt Accession #	P25085
NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 2
NCBI Official Synonym Full Names	interleukin 1 receptor antagonist
NCBI Official Symbol	IL1rn
NCBI Official Synonym Symbols	IL-1ra; F630041P17Rik
NCBI Protein Information	interleukin-1 receptor antagonist protein
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1rn
UniProt Synonym Gene Names	IL-1ra; IL-1RN; IL-1ra; IRAP

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://stage.aaabiotech.com/polyclonal/il1ra-il1rn-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125566>