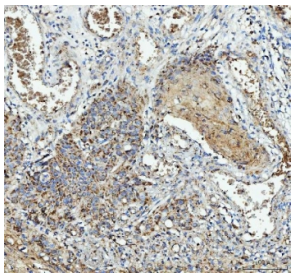
IL-1 Receptor Antagonist Antibody / IL1RN Antibody (R32852)

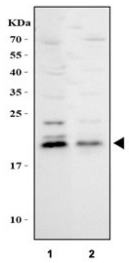
Catalog No.	Formulation	Size
R32852	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

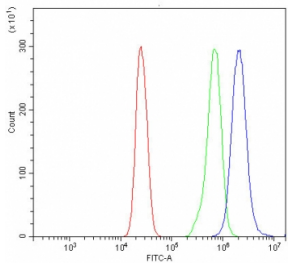
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.005% sodium azide
UniProt	P18510
Applications	Western Blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells ELISA (human recombinant protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This IL-1 Receptor Antagonist Antibody / IL1RN Antibody is available for research use only.



IL-1 Receptor Antagonist Antibody Detects IL1RN in Human Cell Lines WB. Western blot analysis of human cell lysates using IL-1 Receptor Antagonist Antibody detects a prominent band at approximately 20 kDa across the tested cell lines, consistent with the expected molecular weight of IL1RN. The multi-sample blot demonstrates detection of interleukin 1 receptor antagonist protein by this IL1RN Antibody across several human cellular backgrounds.



IL-1 Receptor Antagonist Antibody in Human Breast Cancer IHC. Immunohistochemistry of FFPE human breast cancer tissue using IL-1 Receptor Antagonist Antibody demonstrates distinct predominantly cytoplasmic staining within tumor cells, with heterogeneous staining intensity across the section. The staining demonstrates detection of interleukin 1 receptor antagonist by this IL1RN Antibody in human breast cancer tissue.



IL-1 Receptor Antagonist Antibody Detects IL1RN in U-2 OS Osteosarcoma Cells FACS. Flow cytometry analysis of fixed and permeabilized human U-2 OS osteosarcoma cells using IL-1 Receptor Antagonist Antibody demonstrates a clear rightward fluorescence shift in the antibody-stained population relative to the control population. The population separation demonstrates intracellular detection of interleukin 1 receptor antagonist by this IL1RN Antibody in U-2 OS cells.

Description

IL-1 Receptor Antagonist Antibody recognizes IL1RN, an endogenous inhibitor of interleukin 1 signaling. Encoded by the IL1RN gene, interleukin 1 receptor antagonist belongs to the interleukin 1 cytokine family and helps regulate inflammatory responses by opposing the biological activity of the proinflammatory cytokines IL-1 alpha and IL-1 beta.

IL1RN competes with IL-1 alpha and IL-1 beta for binding to interleukin 1 receptor type 1 (IL1R1). Unlike these receptor agonists, IL-1 receptor antagonist does not initiate the same productive downstream signaling response. Receptor occupancy by IL1RN can therefore limit activation of pathways including NF-kappaB and MAPKs, providing an endogenous mechanism for controlling IL-1-driven inflammatory signaling.

The IL1RN gene produces several alternatively spliced transcripts encoding distinct protein isoforms, including secreted and intracellular forms. Through these different forms, IL1RN can contribute to regulation of IL-1 activity in multiple cellular environments. The balance between IL-1 receptor agonists and IL1RN is relevant to immune-cell activation, tissue responses to injury, and the persistence or resolution of inflammatory responses.

This rabbit polyclonal antibody was generated against a recombinant region corresponding to amino acids 26-177 of human IL1RN. As an IL1RN Antibody, it provides a reagent for investigating expression of this endogenous regulator of the interleukin 1 signaling system. NSJ Bioreagents supplies this antibody for research use only.

An IL-1 Receptor Antagonist Antibody can be used to investigate IL1RN expression and molecular mechanisms regulating cytokine signaling, innate immune responses, and inflammation.

For a monoclonal clone with protein microarray specificity validation, see our IL1RN Antibody IL1RA/4716 / Interleukin-1 Receptor Antagonist Antibody page.

Application Notes

Optimal dilution of the IL-1 Receptor Antagonist Antibody / IL1RN Antibody should be determined by the researcher.

Immunogen

A recombinant protein corresponding to amino acids R26-E177 was used as the immunogen for the IL-1 Receptor Antagonist Antibody.

Storage

After reconstitution, the IL-1 Receptor Antagonist Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

IL1RN antibody, IL1RA antibody, IL-1RA antibody, IL-1RN antibody, interleukin 1 receptor antagonist antibody, interleukin-1 receptor antagonist antibody, IL1F3 antibody, interleukin 1 family member 3 antibody, IRAP antibody, ICIL-1RA antibody

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