

Datasheet for 109-401-305**IL-1 Receptor Type II Antibody****Overview**

Description:	Anti-Human IL-1 Receptor Type II (IL-1RII) (RABBIT) Antibody - 109-401-305
Item No.:	109-401-305
Size:	1 mL
Applications:	WB
Reactivity:	Human, Primate
Host Species:	Rabbit

Product Details

Background:	Interleukin-1 Receptor Type 2 (IL-1RII) is a non-signaling receptor for IL1A, IL1B and IL1RN and reduces IL1B activities. It serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. It also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.
Synonyms:	IL1RB antibody, Interleukin 1 receptor type II precursor antibody, MGC47725 antibody, p68 antibody, Type II interleukin 1 receptor beta antibody, Antigen CDw121b antibody, rabbit anti-interleukin-1 Receptor Type II Antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	IL1R2
Reactivity:	Human, Primate
Immunogen Type:	Recombinant Protein
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with recombinant human IL-1R type II.

Purity/Specificity: This antiserum is directed against the extracellular domain of the human IL-1R type II, but precipitates the intact receptor expressed on human cells. In general, this antibody also detects primate IL-1RII. The antibody does not recognize human IL-1, IL-1Ra or IL-1R type I. In ELISA formats and other immunoreactive assays, this antibody will detect the extracellular domain of the IL-1R type II (also called soluble IL-1R type II) found in human body fluids, particularly in the circulation, urine and supernatants of cells and synovial fluid.

Relevant Links:

- [NCBI - P27930.1](#)
- [UniProtKB - P27930](#)
- [GeneID - 7850](#)

Application Details

Tested Applications:	WB
Application Note:	This antiserum against Human IL-1 Receptor Type II (IL-1RII) has been tested by western blot and is suitable for use in ELISA, radioimmunoassays and immunoprecipitation. Reactivity in other immunoassays is unknown. IL-1RII has been termed p68 or CD121 in some laboratories. IL-1RII has been shown to bind IL-1, IL-1a and IL-1b.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000 - 1:2,000
IP:	1:400 - 1:800
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

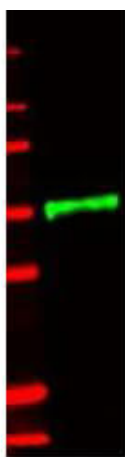
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's anti-IL-1RII antibody. This blot shows detection of an IL-1RII-GST fusion protein (~500 ng, lane 1, green, 800 nm channel). Minimal reactivity is observed against GST (data not shown). Protein was resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking, the membrane was probed with the primary antibody diluted to 1:1,000. Incubation was for 2 hrs at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye® 800 conjugated Gt-a-Rabbit IgG (H&L) MX10 (611-132-122) for 45 min at room temperature. Molecular weight markers are shown for size comparison (lane M, red, 700 nm channel). IRDye® 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Disclaimer

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