abcam

Product datasheet

Anti-IL-1RA antibody [EPR6483] - BSA and Azide free ab226101

KO VALIDATED Recombinant RabMAb

4 Images

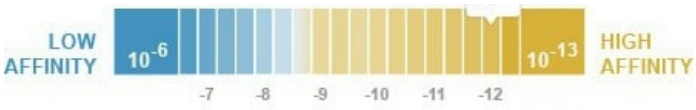
Overview

Product name	Anti-IL-1RA antibody [EPR6483] - BSA and Azide free
Description	Rabbit monoclonal [EPR6483] to IL-1RA - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A431 cell lysates.
General notes	ab226101 is the carrier-free version of **ab124962**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K_D = 8.40 x 10^{-12} M

10^{-12}



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6483
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab226101 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

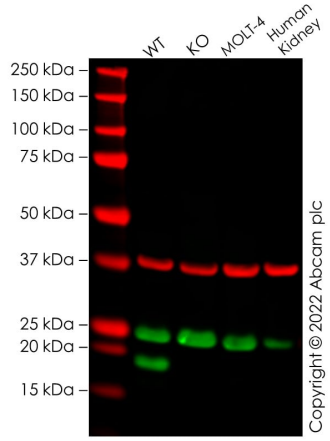
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 20 kDa (predicted molecular weight: 20 kDa).

Application notes Is unsuitable for IHC-P.

Target

Function	Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. Has no interleukin-1 like activity. Binds functional interleukin-1 receptor IL1R1 with greater affinity than decoy receptor IL1R2; however, the physiological relevance of the latter association is unsure.
Tissue specificity	The intracellular form of IL1RN is predominantly expressed in epithelial cells.
Involvement in disease	Microvascular complications of diabetes 4 Interleukin 1 receptor antagonist deficiency
Cellular localization	Cytoplasm and Secreted.

Images



Western blot - Anti-IL-1RA antibody [EPR6483] - BSA and Azide free (ab226101)

All lanes : Anti-IL-1RA antibody [EPR6483] (**ab124962**) at 1/50000 dilution

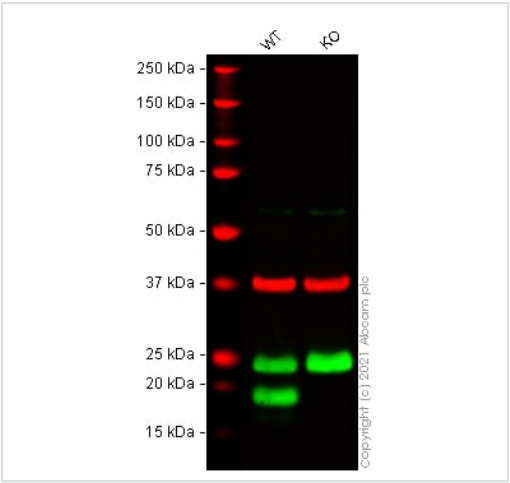
Lane 1 : Wild-type A431 cell lysate
Lane 2 : IL1RN knockout A431 cell lysate
Lane 3 : MOLT-4 cell lysate
Lane 4 : Human Kidney cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 20 kDa
Observed band size: 18 kDa

False colour image of Western blot: Anti-IL-1RA antibody [EPR6483] staining at 1/50000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab124962** was shown to bind specifically to IL-1RA. A band was observed at 18 kDa in wild-type A431 cell lysates with no signal observed at this size in IL1RN knockout cell line **ab273379** (knockout cell lysate **ab275530**). To generate this image, wild-type and IL1RN knockout A431 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-IL-1RA antibody [EPR6483] - BSA and Azide free (ab226101)

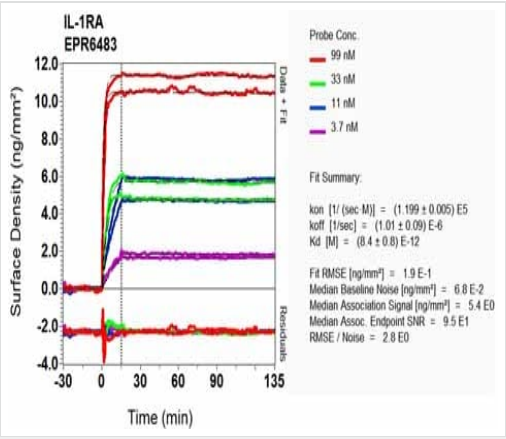
All lanes : Anti-IL-1RA antibody [EPR6483] (**ab124962**) at 1/10000 dilution

Lane 1 : Wild-type A431 cell lysate
Lane 2 : IL-1RA knockout A431 cell lysate

Performed under reducing conditions.

Predicted band size: 20 kDa
Observed band size: 19 kDa

False colour image of Western blot: Anti-IL-1RA antibody [EPR6483] staining at 1/10000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab124962** was shown to bind specifically to IL-1RA. A band was observed at 19 kDa in wild-type A431 cell lysates with no signal observed at this size in IL1RN knockout cell line **ab273379** (knockout cell lysate **ab275530**). To generate this image, wild-type and IL1RN knockout A431 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged.Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



OI-RD Scanning - Anti-IL-1RA antibody [EPR6483] - BSA and Azide free (ab226101)

Anti-IL-1RA antibody [EPR6483] - BSA and Azide free (ab226101)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124962**).

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