abcam

Product datasheet

Anti-IL-1RAcP antibody [EPR22678-67] ab256461

KO VALIDATED Recombinant RabMAb

2 References 7 Images

Overview

Product name	Anti-IL-1RAcP antibody [EPR22678-67]
Description	Rabbit monoclonal [EPR22678-67] to IL-1RAcP
Host species	Rabbit
Tested applications	**Suitable for:** WB, Flow Cyt, IP, Indirect ELISA **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: KARPAS-299 and HepG2 whole cell lysate. Flow Cyt: HeLa and HepG2 cells. IP: KARPAS-299 whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22678-67

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab256461 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		1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 65 kDa).
Flow Cyt		1/60.
IP		1/30.
Indirect ELISA		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

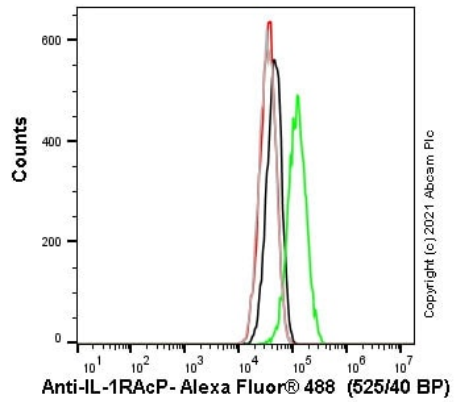
Function Coreceptor with IL1R1. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms (isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.

Tissue specificity Detected in liver, skin, placenta, thymus and lung.

Sequence similarities Belongs to the interleukin-1 receptor family.
Contains 3 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 TIR domain.

Cellular localization Secreted and Cell membrane.

Images



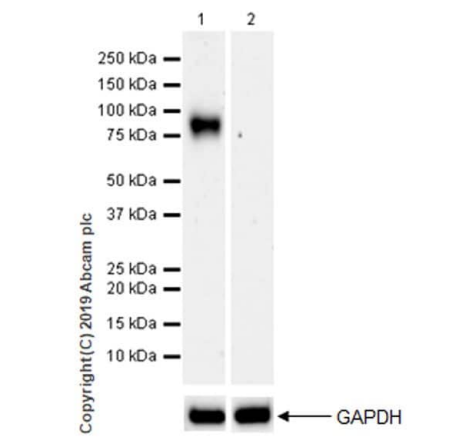
Flow Cytometry - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

Flow cytometry overlay histogram showing wild-type HeLa (green line) and IL1RAP knockout HeLa cells (**ab273375**) stained with ab256461 (red line). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab256461) ($1x10^6$ in 100µl at 10 µ/ml) for 30 min at 4°C.

The secondary antibody Goat anti-rabbit IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150081**) was used at 1/2000 for 30 min at 4°C.

Isotype control antibody was Rabbit IgG (monoclonal) (**ab172730**) used at the same concentration and conditions as the primary antibody (wild-type HeLa - black line; IL1RAP knockout HeLa - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



Western blot - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

All lanes : Anti-IL-1RAcP antibody [EPR22678-67] (ab256461) at 1/1000 dilution

Lane 1 : KARPAS-299 (human anaplastic large cell lymphoma) whole cell lysate
Lane 2 : Raji (human burkitt's lymphoma b lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

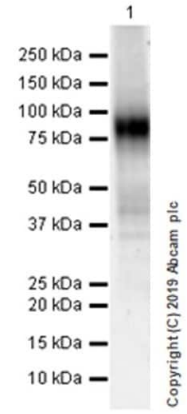
Predicted band size: 65 kDa

Exposure time: 3 minutes

The molecular weight observed is consistent with what has been described in the literature (PMID: 30514753).

Negative control: Raji (PMID: 30514753).

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

Anti-IL-1RAcP antibody [EPR22678-67] (ab256461) at 1/1000 dilution + HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

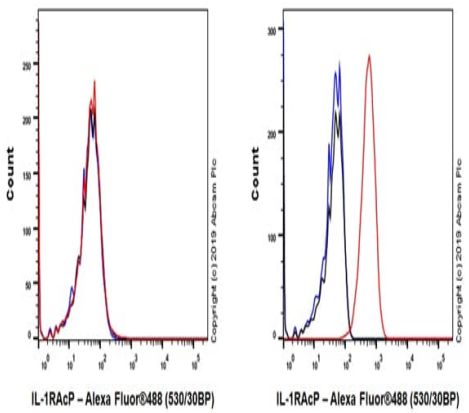
Predicted band size: 65 kDa

Exposure time: 3 minutes

The molecular weight observed is consistent with what has been described in the literature (PMID: 30514753).

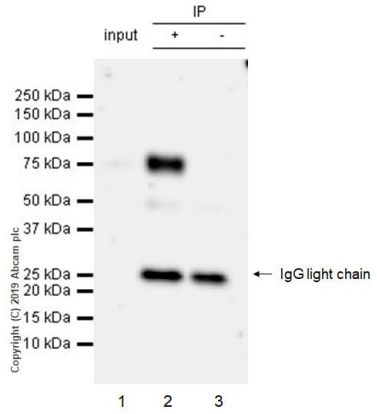
This blot was developed using a higher sensitivity ECL substrate.

Blocking/Dilution buffer: 5% NFDM/TBT.



Flow Cytometry - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

Flow cytometric analysis of Raji (Human burkitt's lymphoma b lymphocyte, Left panel) and HepG2 (Human hepatocellular carcinoma epithelial cell, Right panel) cells labeling IL-1RAcP with ab256461 at a 1/60 dilution (1µg, red), compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at a 1/2000 dilution was used as the secondary antibody. **Negative control:** Raji (PMID: 30514753). Gated on viable cells.



Immunoprecipitation - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

IL-1RAcP was immunoprecipitated from 0.35 mg KARPAS-299 (human anaplastic large cell lymphoma) whole cell lysate 10µg with ab256461 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab256461 at a 1/1000 dilution (0.59 µg/ml). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

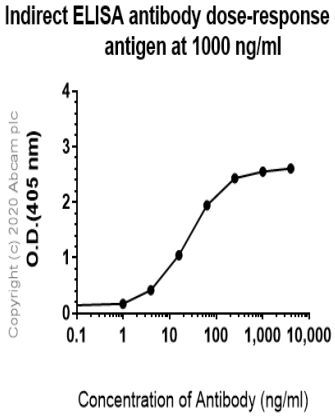
Lane 1: KARPAS-299 (human anaplastic large cell lymphoma) whole cell lysate 10µg.

Lane 2: ab256461 IP in KARPAS-299 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab256461 in KARPAS-299 whole cell lysate.

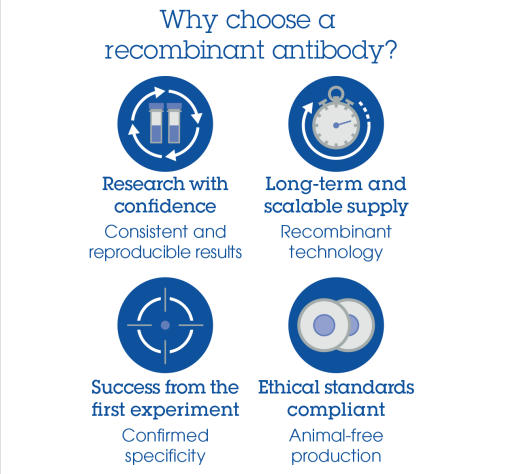
Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 75 secs.



Indirect ELISA - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

ELISA analysis of Hu IL1RAP recombinant protein at 1000 ng/mL with ab256461. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

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