abcam

ab256461

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

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR22678-67
Purification technique	Affinity purification Protein A
Concentration	0.637 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Not recommended

Species	Recombinant full length protein - Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/60
Notes	-

Not recommended

Species	Recombinant full length protein - Human, Mouse, Rat
Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat

Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Recombinant full length protein - Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human, Recombinant full length protein - Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Recombinant full length protein - Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information IL1RAP

Function	Coreceptor for IL1RL2 in the IL-36 signaling system (By similarity). Coreceptor with IL1R1 in the IL-1 signaling system. 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. Coreceptor for IL1RL1 in the IL-33 signaling system. Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD (By similarity). May play a role in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (Probable). Isoform 2. Associates with secreted ligand-bound IL1R2 and increases the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors (PubMed:12530978). Enhances the ability of secreted IL1R1 to inhibit IL-33 signaling (By similarity). Isoform 4. Unable to mediate canonical IL-1 signaling (PubMed:19481478). Required for Src phosphorylation by IL1B. May be involved in IL1B-potentiated NMDA-induced calcium influx in neurons (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

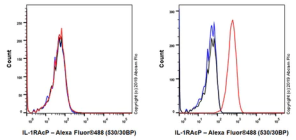
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

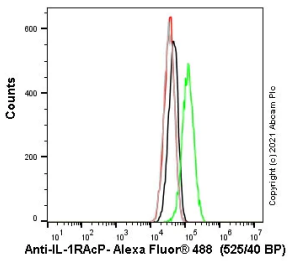
6 product images



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

IL-1RAcP Flow Cytometry staining using rabbit Anti-IL-1RAcP antibody

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.



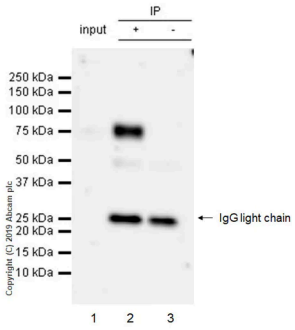
Flow Cytometry - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

IL-1RAcP Flow Cytometry staining using rabbit Anti-IL-1RAcP antibody

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.



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.

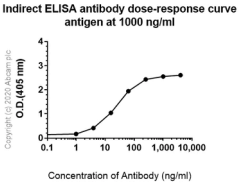
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab256461 in KARPAS-299 whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 75 secs.

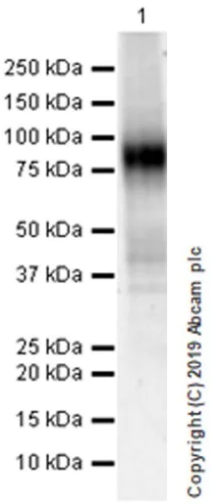
All lanes:
Immunoprecipitation - Anti-IL-1RAcP antibody [EPR22678-67] (ab256461)

Predicted band size: 65 kDa



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.



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

IL-1RAcP Western blot staining of HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate using rabbit Anti-IL-1RAcP antibody

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.

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

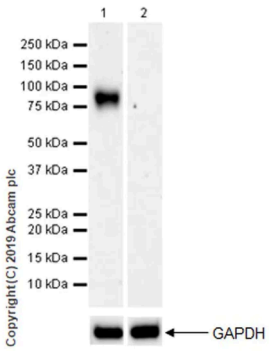
All lanes:
HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 65 kDa

Exposure time: 3min



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

IL-1RAcP Western blot staining using rabbit Anti-IL-1RAcP antibody

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.

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

Lane 1:
KARPAS-299 (human anaplastic large cell lymphoma) whole cell lysate at 20 µg

Lane 2:
Raji (human burkitt's lymphoma b lymphocyte) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 65 kDa

Exposure time: 3min

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.