

Datasheet for 600-401-BV3**IL-1RAcP Antibody****Overview**

Description:	Anti-IL-1RAcP (RABBIT) Antibody - 600-401-BV3
Item No.:	600-401-BV3
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The pro-inflammatory cytokine IL-1 induced cellular response requires two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RAcP). IL-1 RAcP forms a complex with IL-1RI in response to IL-1 treatment. The IL-1 receptor-associated kinase (IRAK), which mediates activation of NF-κB inducing kinase (NIK) and of NF-κB, recruits to the IL-1R complex through IL-1 RAcP. IL-1 activation of stress-activated protein kinase and of acid sphingomyelinase also requires IL-1RAcP. Like IL-1RI, IL-1RAcP subunit is essential for IL-1 mediated cellular response. IL-1RAcP is expressed in many tissues.
Synonyms:	IL-1RAcP Antibody, IL1R3, C3orf13, IL-1RAcP, IL1R3, Interleukin-1 receptor accessory protein, Interleukin-1 receptor 3, IL-1 receptor accessory protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL1RAP
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-IL-1RAcP antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the C-terminus of IL-1RAcP, which differs from. The sequence of mouse origin by three amino acids.

Purity/Specificity:	Anti-IL-1RAcP Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. It has no cross activity to other member in the IL-1 receptor family.
Relevant Links:	• UniProtKB - Q9NPH3 • GeneID - 3556 • NCBI - AF029213

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-IL-1RAcP Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Expect a band at approximately 65 kDa in Western Blots using positive control K562 whole cell lysate, HeLa WCL for ICC, or other specific cell lysates and tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IHC:	5 µg/mL
WB:	0.5 µg/mL

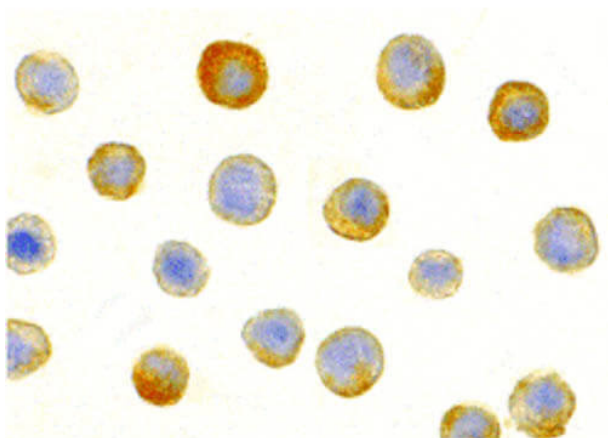
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

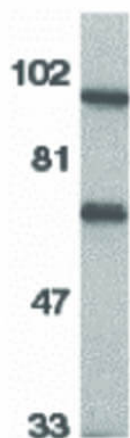
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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



Immunocytochemistry

Immunocytochemistry of IL-1RAcP antibody. Cells: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IL-1RAcP antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IL-1RAcP is localized in the cell membrane. Staining: IL-1RAcP as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot

Western Blot of IL-1RAcP antibody. Lane 1: HeLa whole cell lysate. Load: 35 µg per lane. Primary antibody: IL-1RAcP antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 65.4 kDa, 67 kDa for IL-1RAcP. Other band(s): IL-1RAcP splice variants and isoforms.

References

- Zhou, J et al. Structural basis of the IL-1 receptor TIR domain-mediated IL-1 signaling. *IScience* (2022)
- Ge J et al. Functional relevance of interleukin-1 receptor inter-domain flexibility for cytokine binding and signaling. *Structure*. (2019)

Disclaimer

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