

**Datasheet for 600-401-C06****IL-34 Antibody****Overview**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Description:</b>  | Anti-IL-34 (RABBIT) Antibody - 600-401-C06 |
| <b>Item No.:</b>     | 600-401-C06                                |
| <b>Size:</b>         | 100 µg                                     |
| <b>Applications:</b> | ELISA, WB                                  |
| <b>Reactivity:</b>   | Human, Mouse, Rat                          |
| <b>Host Species:</b> | Rabbit                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Background:</b>   | Interleukin-34 (IL-34) was identified through a functional screening of a library of secreted proteins after transfection of an embryonic kidney cell line with recombinant cDNAs. Flow cytometry and monocyte viability assays demonstrated increased survival and/or proliferation of monocytes induced by IL-34 and specific binding of IL-34 to CD14+ monocytes. IL-34 is a second ligand to the colony stimulating factor (CSF)-1 receptor in addition to CSF1. Like CSF1, IL-34 stimulates phosphorylation of ERK1 and ERK2 in human monocytes and induces differentiation of bone marrow cells into macrophages. Anti-IL-34 Antibody is ideal for investigators involved in Cell Signaling, Immunology and Signal Transduction research. |
| <b>Synonyms:</b>     | IL-34, Interleukin-34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                        |                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | IL34                                                                                                                                                                                           |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                                                              |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                                             |
| <b>Immunogen:</b>      | Anti-IL-34 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of human IL-34 protein. |

**Purity/Specificity:** Anti-IL 34 is affinity chromatography purified via peptide column. The IL34 gene is conserved in chimpanzee, dog, cow, mouse, and rat. This antibody reacts with IL-34 from human, mouse, and rat sources. Reactivity with IL-34 from other sources has not been determined.

**Relevant Links:**

- [NCBI - 187610438](#)
- [UniProtKB - Q6ZMJ4](#)
- [GeneID - 146433](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-IL-34 Antibody has been tested for use in ELISA and WB. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~48 kDa in size corresponding to IL-34 by Western blotting in the appropriate cell lysate or extract. Despite its predicted molecular weight, IL-34 will often run at higher molecular weight in SDS-PAGE. Human brain tissue lysate may be used as positive control.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000 - 1:40,000

**WB:** 0.25 - 0.5 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

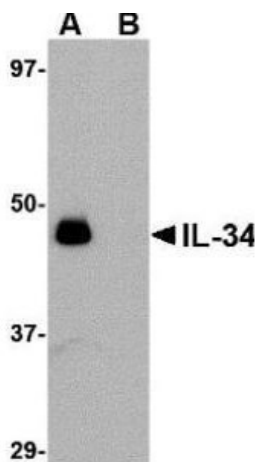
## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

## Images



### Western Blot

Western blot of IL-34 Antibody. Lane A: human brain tissue lysate in the absence of blocking peptide. Lane B: human brain tissue lysate in the presence of blocking peptide. Primary antibody: Anti-IL34 at 0.25 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.