

# Anti-IL-6 Antibody

Catalog # ABO11730

## Product Information

---

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                           |
| <b>Primary Accession</b> | <a href="#">P20607</a>                                                                                       |
| <b>Host</b>              | Rabbit                                                                                                       |
| <b>Reactivity</b>        | Rat                                                                                                          |
| <b>Clonality</b>         | Polyclonal                                                                                                   |
| <b>Format</b>            | Lyophilized                                                                                                  |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for interleukin 6 (interferon, beta 2)(IL6) detection. Tested with WB in Rat. |

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## Additional Information

---

|                                 |                                                                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 24498                                                                                                                                                                              |
| <b>Other Names</b>              | Interleukin-6, IL-6, Il6, Il-6                                                                                                                                                     |
| <b>Calculated MW</b>            | 24357                                                                                                                                                                              |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Rat                                                                                                                                                   |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                          |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                          |
| <b>Protein Name</b>             | Interleukin-6                                                                                                                                                                      |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                |
| <b>Immunogen</b>                | E.coli-derived rat IL-6 recombinant protein (Position: F25-T211). Rat IL-6 shares 86% amino acid (aa) sequence identity with mouse IL-6.                                           |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>                  | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |

## Protein Information

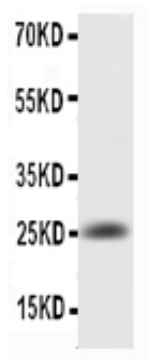
---

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | IL6 {ECO:0000312 RGD:2901}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>          | IL-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b>          | Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway. The interaction with the membrane- bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells. |
| <b>Cellular Location</b> | Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Background

Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. Bowcock et al. (1988) assigned the IL6 gene to chromosome 7p21. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, Sutherland et al. (1988) mapped the IL-6 gene to chromosome 7p15.

## Images



Anti-IL-6 Picoband antibody, ABO11730-1.jpg  
 All lanes:  
 Anti-IL-6(ABO11730) at 0.5ug/ml  
 WB: Recombinant Rat IL-6 Protein 0.5ng  
 Predicted bind size: 25KD  
 Observed bind size: 25KD

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