

## Product datasheet

# Anti-IL6 antibody ab9770

2 References [画像数 1](#)

### 製品の概要

製品名	Anti-IL6 antibody
製品の詳細	Goat polyclonal to IL6
アプリケーション	<b>適用あり:</b> WB, ELISA, Neutralising
種交差性	<b>交差種:</b> Rat
免疫原	Highly pure (>98%) recombinant rat IL-6 (rat Interleukin-6)

### 製品の特性

製品の状態	Lyophilised: We recommend a quick spin followed by reconstitution with 100ul distilled water to a concentration of 1.0mg/ml. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	PBS, pH 7.4, no preservative, sterile filtered
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	unknown
軽鎖の種類	unknown

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab9770** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

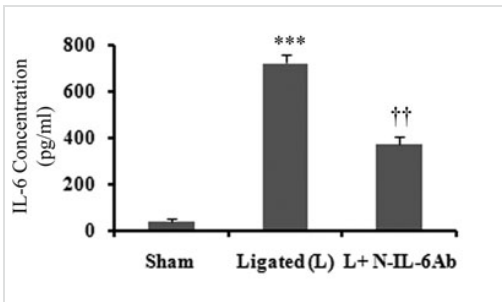
アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. To detect rIL-6 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant rIL-6 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

アプリケーション	Abreviews	特記事項
ELISA		Use at an assay dependent concentration. To detect rIL-6 by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant rIL-6.
Neutralising		Use at an assay dependent concentration. To yield one-half maximal inhibition [ND50] of the biological activity of rIL-6 (0.1 ng/ml), a concentration of 0.002 0.005 µg/ml of this antibody is required.

## ターゲット情報

機能	Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation Acts on B-cells, T-cells, hepatocytes, hematopoeitic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.
関連疾患	Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis. Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.
配列類似性	Belongs to the IL-6 superfamily.
翻訳後修飾	N- and O-glycosylated.
細胞内局在	Secreted.

## 画像



Neutralising - Anti-IL6 antibody (ab9770)

Image from Mir SA et al, J Biol Chem. 2012 Jan 20;287(4):2666-77. Epub 2011 Dec 7, Fig 1. DOI 10.1074/jbc.M111.246173 January 20, 2012 The Journal of Biological Chemistry, 287, 2666-2677.

### IL-6-induced collagen synthesis during hypertrophy in vivo and in vitro.

Serum IL-6 concentration was measured by ELISA on day 15 after renal artery ligation in rats, and results show a significant increase in secreted IL-6 level in the serum of renal artery-ligated (L) animals ( $721.42 \pm 34.45$  pg/ml) compared to sham-operated controls ( $39.33 \pm 12.96$  pg/ml), which was reduced significantly (48.1%) with neutralizing IL-6 antibody (L+N-IL-6Ab)(ab9770) treatment ( $10 \mu\text{g}/\text{animal}$ ; on alternate days after renal artery ligation till sacrifice).

Results are expressed as the  $\pm$ S.E. of three independent experiments. \*\*,  $p < 0.01$  with respect to Sham; ††,  $p < 0.01$  with respect to ligated;  $n = 10$  in each group.

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