

Product datasheet

Anti-IL-6 antibody [1.2-2B11-2G10] ab9324

★★★★★ [21 Abreviews](#) [265 References](#) [4 Images](#)

Overview

Product name	Anti-IL-6 antibody [1.2-2B11-2G10]
Description	Mouse monoclonal [1.2-2B11-2G10] to IL-6
Host species	Mouse
Tested applications	Suitable for: IHC-P, Sandwich ELISA, WB
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length protein corresponding to Human IL-6 aa 29-212. (Peptide available as ab9627). Database link: P05231
Positive control	IHC-P: Human liver tumor and prostate tumor tissues; WB: Human spleen and lung tissue lysates, Rat spleen and lung tissue lysates, Recombinant human IL6 protein (ab9627).
General notes	Although some customers have been successful in IHC we no longer batch test in this application. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized:Reconstitute with 500µl of sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Purity	Protein A purified
Clonality	Monoclonal
Clone number	1.2-2B11-2G10
Isotype	IgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9324 in the following tested applications.

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

Application	Abreviews	Notes
IHC-P	★★★★★ (12)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Sandwich ELISA		Use at an assay dependent concentration. In a sandwich ELISA (assuming 100µl/well), a concentration of 1.0-2.0 µg/ml of this antibody will detect at least 1000pg/ml of Recombinant Human IL-6 when used with ab271236 detection antibody at a concentration of approximately 0.10-0.20 µg/ml.
WB	★★★★★ (3)	Use at an assay dependent concentration. To detect human IL-6 by Western blot analysis this antibody can be used at a concentration of 0.50-1.0 µg/mL. When used in conjunction with compatible secondary reagents the detection limit for recombinant human IL-6 is 1.0-2.0 ng/lane, under reducing conditions and non-reducing conditions.

Target

Function

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, hematopoietic 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.

Involvement in disease

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.

Sequence similarities

Belongs to the IL-6 superfamily.

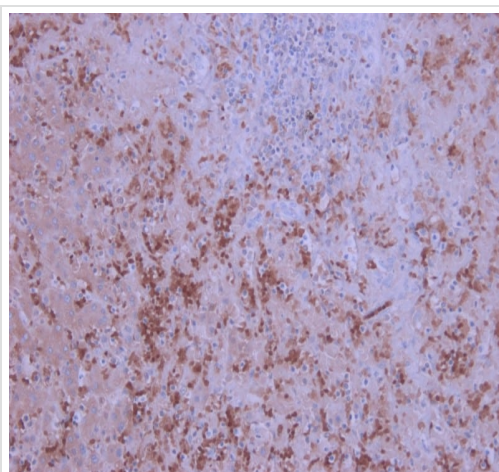
Post-translational modifications

N- and O-glycosylated.

Cellular localization

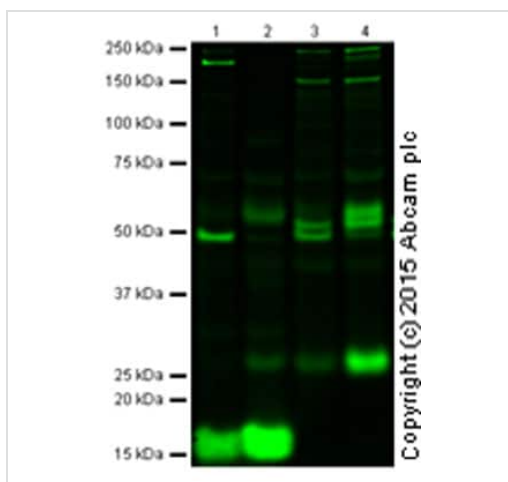
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Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-6 antibody [1.2-2B11-2G10] (ab9324)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tumor tissue labelling IL-6 with ab9324 at 1 µg/mL (45 minute incubation at room temperature). Heat mediated antigen retrieval was performed using a buffer at pH 6. An HRP-labeled polymer detection system was used with a DAB chromogen.



Western blot - Anti-IL-6 antibody [1.2-2B11-2G10] (ab9324)

All lanes : Anti-IL-6 antibody [1.2-2B11-2G10] (ab9324) at 1/2000 dilution

Lane 1 : Human Spleen

Lane 2 : Human Lung

Lane 3 : Rat Spleen

Lane 4 : Rat Lung

Lysates/proteins at 20 µg per lane.

Secondary

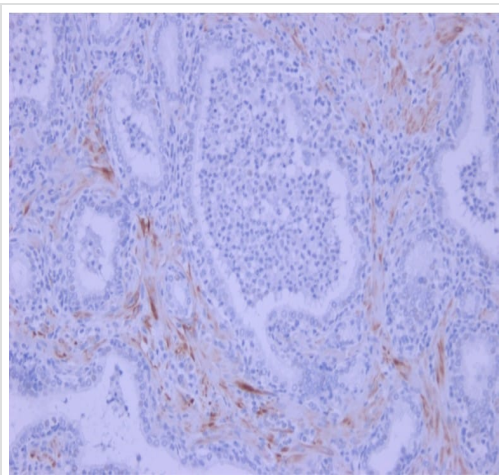
All lanes : 800CW Goat Anti-Mouse IgG at 1/10000 dilution

Performed under reducing conditions.

Observed band size: 17,25 kDa

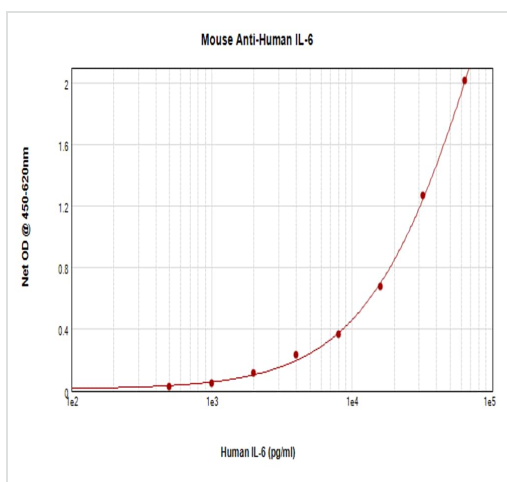
Additional bands at: 50 kDa (possible multimer)

This antibody was raised against an immunogen that is predicted to recognize the glycosylated form of IL6 as well as the IL6delta4 splice variant. The predicted molecular weights are 25 kDa and 17 kDa respectively. The band observed at 50 kDa may represent multimers of IL6 as reported in the literature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-6 antibody [1.2-2B11-2G10] (ab9324)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate tumor tissue labelling IL-6 with ab9324 at 1 µg/mL (45 minute incubation at room temperature). Heat mediated antigen retrieval was performed using a buffer at pH 6. An HRP-labeled polymer detection system was used with a DAB chromogen.



Sandwich ELISA - Anti-IL-6 antibody [1.2-2B11-2G10] (ab9324)

ab9324 detecting IL-6 by sandwich ELISA.

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