Datasheet for ABIN964780

anti-IL-6 antibody

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Overview

Quantity:	100 µg
Target:	IL-6 (IL6)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Anti-IL-6 is an IgG fraction antibody prepared from rabbit antiserum after repeated immunizations with recombinant mouse IL-6 protein produced in E.coli. Immunogen Type: RecombinantProtein
Isotype:	IgG
Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse IL-6 protein. A BLAST analysis was used to suggest cross-reactivity with IL-6 from mouse sources based on 100% homology with the immunizing sequence. Based on 94% homology, there is a chance of cross-reactivity to IL-6 from rat. Cross-reactivity with IL-6 from other sources has not been determined.
Characteristics:	Interleukin (IL)-6, also know as BCDG, BCGF and BSF-2, is an important proinflammatory and immunoregulatory cytokine expressed by various cells. Interleukin-6 has been shown to inhibit

Product Details

	the growth of early stage and to promote the proliferation of advanced stage melanoma cells in vitro. Anti-IL-6 antibody is ideal for investigators involved in Cancer, Neuroscience and Immunology research.
Purification:	purified

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL6 (IL6 Products)
Background:	Interleukin (IL)-6, also know as BCDG, BCGF and BSF-2, is an important proinflammatory and immunoregulatory cytokine expressed by various cells. Interleukin-6 has been shown to inhibit the growth of early stage and to promote the proliferation of advanced stage melanoma cells in vitro. Anti-IL-6 antibody is ideal for investigators involved in Cancer, Neuroscience and Immunology research. Synonyms: Interleukin-6 cytokine, IL-6, B-cell stimulatory factor 2, BSF-2, Interferon beta-2, IFN-beta-2, Hybridoma growth factor, CTL differentiation factor, CDF, Interleukin HP-1
Gene ID:	16193
NCBI Accession:	NP_112445
UniProt:	P08505
Pathways:	TLR Signaling, Hormone Transport, Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Regulation of Carbohydrate Metabolic Process, Autophagy, Cell RedoxHomeostasis, Cancer Immune Checkpoints, Inflammasome

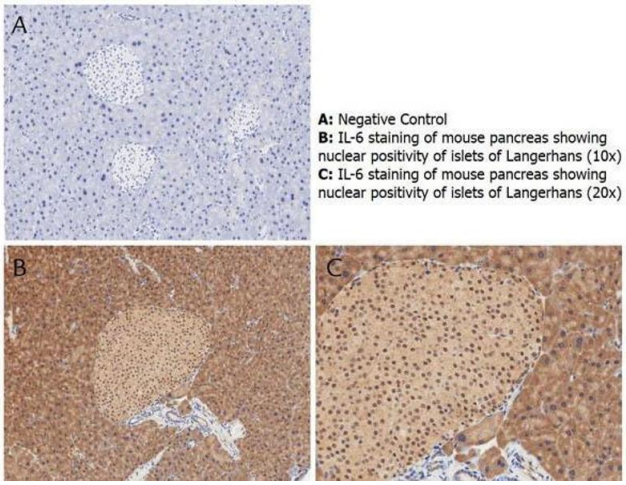
Application Details

Application Notes:	This purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 21.7 kDa in size corresponding to the mature 187 amino acid mouse IL-6 protein by western blotting in appropriate cell lysate or extract.
Comment:	Gene Name: Il-6
Restrictions:	For Research Use only

Handling

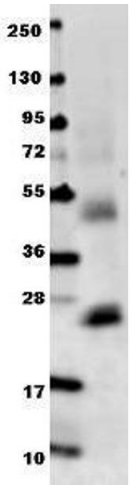
Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 µL
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Without preservative
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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 date is six (6) months from date of opening.
Expiry Date:	6 months

Images



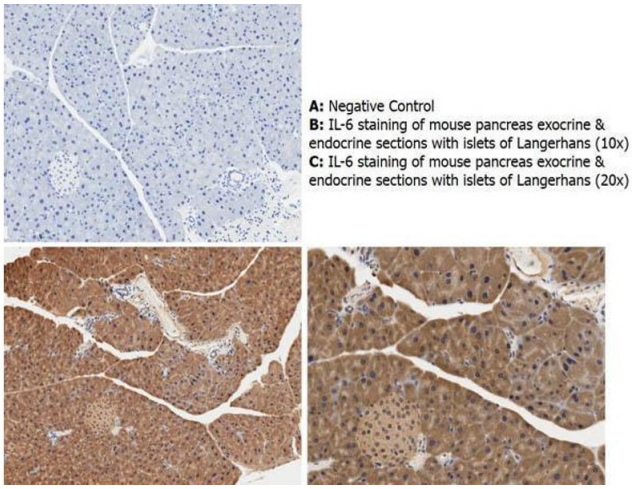
Immunohistochemistry

Image 1. Immunohistochemistry with anti-IL-6 antibody showing nuclear positivity of islets of Langerhans (brown staining) and cytoplasmic staining in mouse pancreas at 10x and 20x (B & C). Staining was performed on Leica Bond system using the standard protocol. Formalin fixed/paraffin embedded tissue sections were subjected to antigen retrieval with E1 (Leica Microsystems) retrieval solution for 20 min and then incubated with rabbit anti-mouse IL-6 antibody at 1:50 dilution for 60 minutes. Biotinylated Anti-rabbit secondary antibody was used at 1:200 dilution to detect primary antibody. The reaction was developed using streptavidin-HRP conjugated compact polymer system and visualized with chromogen substrate, 3'3-diamino-benzidine substrate (DAB). The sections were then counterstained with hematoxylin to detect cell nuclei.



Western Blotting

Image 2. Anti-mouse IL-6 antibody in western blot shows detection of recombinant mouse IL-6 raised in E.coli. Recombinant truncated protein (0.1 µg, 21.7 kDa) was loaded on to an SDS-PAGE gel, and after separation, transferred to nitrocellulose. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with Anti-Mouse IL-6 antibody diluted 1:1,000 in 1% BSA in TBST overnight at 4°C. After washes, the blot was reacted with secondary antibody 649 Conjugated Anti-Rabbit IgG (H&L) (Goat) Antibody diluted 1:20,000 in blocking buffer for 30 min. at RT. Data was collected using Bio-Rad 4000 MP imaging system.



Immunohistochemistry

Image 3. Immunohistochemistry with anti-IL-6 antibody showing cytoplasmic IL-6 staining in mouse pancreas exocrine and endocrine sections with islets of Langerhans at 10x and 20x (B & C). Staining was performed on Leica Bond system using the standard protocol. Formalin fixed/paraffin embedded tissue sections were subjected to antigen retrieval with E1 (Leica Microsystems) retrieval solution for 20 min and then incubated with rabbit anti-mouse IL-6 antibody at 1:50 dilution for 60 minutes. Biotinylated Anti-rabbit secondary antibody was used at 1:200 dilution to detect primary antibody. The reaction was developed using streptavidin-HRP conjugated compact polymer system and visualized with chromogen substrate, 3'3-diamino-benzidine substrate (DAB). The sections were then counterstained with hematoxylin to detect cell nuclei.

