Anti-IL-6 Antibody

IRS160RB

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	mIHC
Molecular Wt:	Predicted band size: 24 kDa

Description: 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. Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ). 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.

Immunogen: Recombinant protein (or fragment).

Positive control: Human tonsil tissue, human lung tissue, human intrahepatic cholangiocarcinoma tissue, human appendix tissue, human gastric cancer tissue, human pancreatic cancer tissue.

Subcellular location: Secreted.

Database links: SwissProt: P05231 Human

Recommended Dilutions:

mIHC	1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Affinity purification

Images

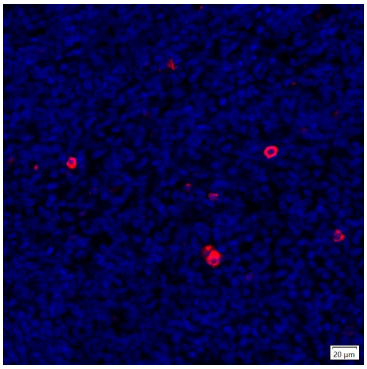

Fig1: mIHC analysis of human tonsil tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

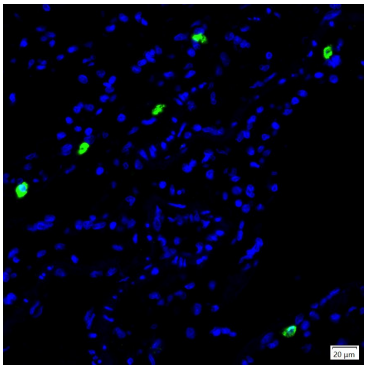

Fig2: mIHC analysis of human lung tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

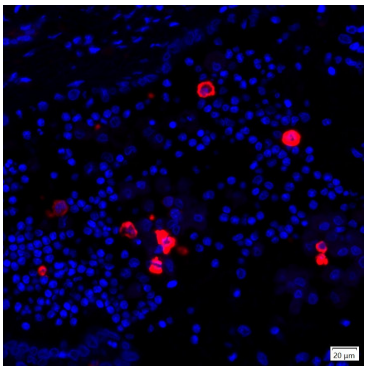

Fig3: mIHC analysis of human intrahepatic cholangiocarcinoma tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

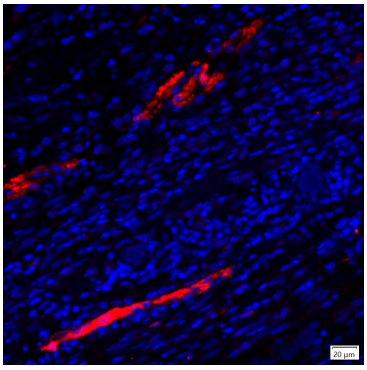

Fig4: mIHC analysis of human appendix tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

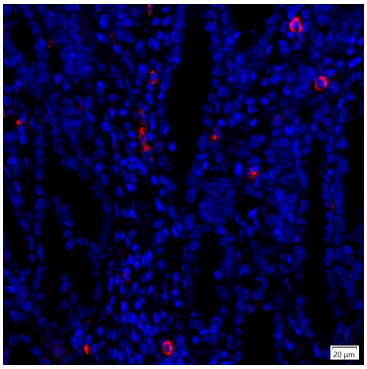

Fig5: mIHC analysis of human gastric cancer tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

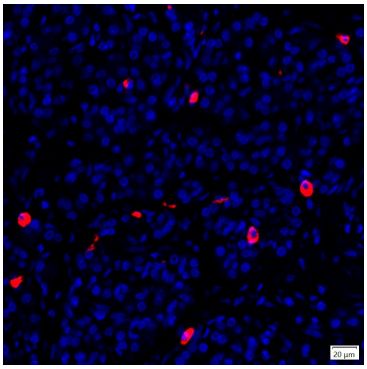

Fig6: mIHC analysis of human pancreatic cancer tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-6 antibody (IRS160RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Timper K., Denson J.L., Steculorum S.M., Heilinger C., Engstroem-Ruud L., Wunderlich C.M., Rose-John S., Wunderlich F.T., Bruening J.C. IL-6 Improves Energy and Glucose Homeostasis in Obesity via Enhanced Central IL-6 trans-Signaling. Cell Rep. 19:267-280 (2017)
2. Ivanov I.I., McKenzie B.S., Zhou L., Tadokoro C.E., Lepelley A., Lafaille J.J., Cua D.J., Littman D.R. The orphan nuclear receptor RORgammat directs the differentiation program of proinflammatory IL-17+ T helper cells. Cell 126:1121-1133 (2006)