

**Rat Anti-IL-6 [IL6/1270]: RT0002**

**Intended Use:** For Research Use Only

**Description:** IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survivability of certain B-cells and T-cells. It plays a critical role in B-cell differentiation to plasma cells and is a potent growth factor for plasmacytoma and myeloma. IL-6 is produced by a variety of cell types, including monocytes, fibroblasts and endothelial cells. Upon stimulation, macrophages, T, B, mast, and glial cells, eosinophils, keratinocytes and granulocytes also secrete IL-6. It is involved in host defense, acute phase reactions, immune responses, and hematopoiesis.

**Specifications:**

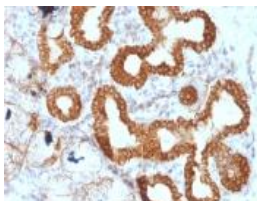
Clone: IL6/1270  
 Source: Rat  
 Isotype: IgG1k  
 Reactivity: Human, mouse  
 Localization: Cytoplasmic , extracellular (secreted)  
 Formulation: Antibody in PBS buffer pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF  
 Package:

Description	Catalog No.	Size
IL-6 Concentrated	RT0002	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Heart  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris-EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human esophageal carcinoma stained with anti-IL-6 using DAB

**References:**

1. Increased toll-like receptors and p53 levels regulate apoptosis and angiogenesis in non-muscle invasive bladder cancer: mechanism of action of P-MAPA biological response modifier. Garcia PV, et al. Cancer 16:422, 2016.
2. Mesenchymal Stem Cells are Recruited and Activated into Carcinoma-Associated Fibroblasts by Prostate Cancer Microenvironment-Derived TGF-β1. Souza P, et al. Stem Cells 34:2536-2547, 2016.
3. Sex-specific IL-6-associated signaling activation in ozone-induced lung inflammation. Mishra V, et al. Biol Sex Differ 7:16, 2016.
4. Losartan ameliorates dystrophic epidermolysis bullosa and uncovers new disease mechanisms. Nyström A, et al. EMBO Mol Med 7:1211-28, 2015.
5. Human esophageal myofibroblasts secrete proinflammatory cytokines in response to acid and Toll-like receptor 4 ligands. Gargus M, et al. Am J Physiol Gastrointest Liver Physiol 308:G904-23, 2015.

Doc. 100-RT0002  
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