

Mouse Anti-CD130/gp130/IL-6RB [AN-H2]: MC0231, MC0231RTU7

Intended Use: For Research Use Only

Description: The activation of the IL-6 protein is dependent upon the binding of cytokines to their receptors. vIL6, a protein related to IL-6 and encoded by the Kaposi sarcoma-associated herpesvirus, can bypass the IL-6 receptor (IL-6R) and directly activate this protein. IL-6 first binds to IL-6R which subsequently associates with a gp130 dimer. The active signaling complex consists of at minimum IL-6, IL-6R and a dimer of two gp130 proteins that are linked by a disulfide bond. The second subunit of the IL-6 complex, gp130, also functions as a component of several additional receptor complexes including leukemia inhibitory factor (LIF), oncostatin M (OSM), ciliary neurotrophic factor (CNTF) and IL-11. LIF binds to the LIF receptor with low affinity and to a complex of the LIF receptor and gp130 with high affinity while OSM appears to bind to gp130 with low affinity and to a complex of gp130 and the LIF receptor with high affinity. The protein encoded by this gene is a signal transducer shared by many cytokines, including interleukin 6 (IL-6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This protein functions as a part of the cytokine receptor complex.

Specifications:

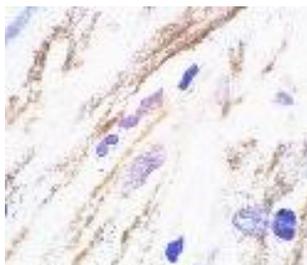
Clone: AH-H2
 Source: Mouse
 Isotype: IgG1a/k
 Reactivity: Human
 Localization: Cytoplasm, some membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, Flow Cyt., ICC/IF
 Package:

Description	Catalog No.	Size
CD130/gp130/IL-6RB Concentrated	MC0231	1 ml
CD130/gp130/IL-6RB Prediluted	MC0231RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Colon carcinoma
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 colon carcinoma stained with anti-CD130/gp130 using DAB

References:

1. IL-6 trans-signaling system in intra-amniotic inflammation, preterm birth, and preterm premature rupture of the membranes. Lee, SY. et al. J. Immunol.. 186: 3226-3236, 2011.
2. A case of granulocyte-colony stimulating factor-producing hepatocellular carcinoma confirmed by immunohistochemistry. Joshita, S. et al. J. Korean Med. Sci.. 25: 476-480, 2010.
3. Porphyromonas gingivalis fimbriae-dependent interleukin-6 autocrine regulation by increase of gp130 in endothelial cells. Ho, YS. et al. J. Periodont. Res.. 44: 550-6, 2009.

Doc. 100-MC0231
Rev. A