

Rabbit Anti-LIF/Leukemia Inhibitory Factor Polyclonal: RC0019

Intended Use: For Research Use Only

Description: LIF or Leukemia Inhibitory Factor is a pleiotropic cytokine produced at the maternal-fetal interface which has been shown to play an essential role in implantation in mice. This gene is mapped to 22q11-q12.2, between the Philadelphia translocation BCR gene and the breakpoint of the translocation in cell line GM2324 at 22q12.2. LIF is produced in high amounts by the human endometrium and the trophoblast itself, and LIF receptors are present on cytotrophoblast cells. LIF may play a role in modulating HLA-G production and immune tolerance at the maternal-fetal interface. LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes.

Specifications:

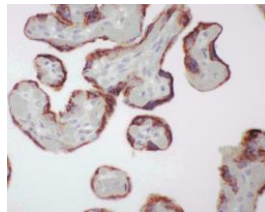
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Secreted
 Formulation: Antibody in PBS buffer pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
LIF/Leukemia Inhibitory Factor Concentrated	RC0019	1 ml

IHC Procedure*:

Positive Control Tissue: Placenta
 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 placenta stained with anti-LIF using DAB

References:

1. Pinopodes, leukemia inhibitory factor, integrin-β3, and mucin-1 expression in the peri-implantation endometrium of women with unexplained recurrent pregnancy loss. Xu B, et al. Fertil Steril. Aug;98(2):389-95, 2012.
2. Effects Of Acupuncture On Lif And Il-12 In Rats Of Implantation Failure. Gui J, et al. Am J Reprod Immunol. May;67(5):383-90, 2012.
3. The effects of mifepristone on the expressions of osteopontin, interleukin-6 and leukemia inhibitory factor in the villi of early pregnant women. Pei K, et al. Contraception. Oct;82(4):379-84, 2010.
4. Effects of hydrosalpinx on pinopodes, leukaemia inhibitory factor, integrin beta3 and MUC1 expression in the peri-implantation endometrium. Li L, et al. Eur J Obstet Gynecol Reprod Biol. Aug;151(2):171-5, 2010.
5. Lif Upregulates Expression Of Nk-1R In Nhbe Cells. Hu Cp, et al. Mediators Inflamm. (5):84829, 2006.

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