LIF Rabbit pAb

Catalog#: A15107 | Size: 30μL/50μL/100μL

Main Information

Target	Host Species	Reactivity	Application	MW	Conjugated/Modification
LIF	Rabbit	Human, Mouse, Rat	WB, IHC, IF, ELISA	25kD (Observed)	Unmodified

Detailed Information

Recommeded Dilution Ratio	WB 1:500-1:2000; IHC: 1:100-300; ELISA 1:20000; IF 1:50-200
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Specificity	LIF Polyclonal Antibody detects endogenous levels of LIF protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Storage	-15°C to -25°C/1 year(Do not lower than -25°C)
Concentration	1 mg/ml
MW(Observed)	25kD
Modification	Unmodified
Clonality	Polyclonal
Isotype	IgG

Antigen&Target Information

Immunogen	The antiserum was produced against synthesized peptide derived from the C-terminal region of human LIF. AA range:141-190
Specificity	LIF Polyclonal Antibody detects endogenous levels of LIF protein.
Gene Name	LIF
Protein Name	Leukemia inhibitory factor
Other Name	LIF ;HILDA ;Leukemia inhibitory factor ;LIF ;Differentiation-stimulating factor ;D factor ;Melanoma-derived LPL inhibitor ;MLPLI ;Emfilermin

Database Link

Organism	Gene ID	SwissProt
Human	3976	P15018
Mouse		P09056

Background

leukemia inhibitory factor(LIF) Homo sapiens The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012].

Function

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.,online information:Leukemia inhibitory factor entry,pharmaceutical:In phase II clinical trial. The drug is being developed by Amrad to assist embryo implantation in women who have failed to become pregnant despite assisted reproductive technologies (ART).,similarity:Belongs to the LIF/OSM family.

Cellular Localization

Secreted

Tissue Expression

Colon

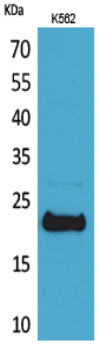
Research Areas

- Cytokine-cytokine receptor interaction
- Signaling pathways regulating pluripotency of stem cells
- JAK-STAT signaling pathway
- TNF signaling pathway

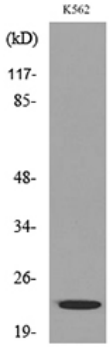
Signaling Pathway

Cellular Processes >> Cellular community - eukaryotes >> Signaling pathways regulating pluripotency of stem cells
Environmental Information Processing >> Signal transduction >> JAK-STAT signaling pathway
Environmental Information Processing >> Signal transduction >> TNF signaling pathway
Environmental Information Processing >> Signaling molecules and interaction >> Cytokine-cytokine receptor interaction

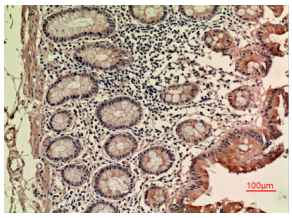
Validation Data



Western Blot analysis of K562 cells using LIF Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysate from K562 cells, using LIF Antibody.



Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:100

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