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Datasheet for 600-401-CK5

LIF Antibody

Overview

Description:	Anti-LIF (RABBIT) Antibody - 600-401-CK5
Item No.:	600-401-CK5
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	LIF 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. LIF was initially recognized by its ability to induce terminal differentiation of myeloid leukemic cells. It is a member of the IL-6 cytokine superfamily and can be highly glycosylated. LIF signaling is transduced through the LIF-R/gp130 receptor complex, leading to the phosphorylation and activation of the JAK/STAT pathway. Recent evidence shows that LIF inhibits cardiomyogenesis in embryonic stem cells via STAT3 activation.
Synonyms:	LIF Antibody, CDF, DIA, HILDA, MLPLI, Leukemia inhibitory factor, Differentiation-stimulating factor, LIF
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LIF
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-LIF antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the internal region of human LIF.
Purity/Specificity:	Anti-LIF Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with LIF from other sources has not been determined.
Relevant Links:	• UniProtKB - P15018 • GeneID - 3976 • NCBI - NP_002300

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-LIF Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1-2 µg/mL

Formulation

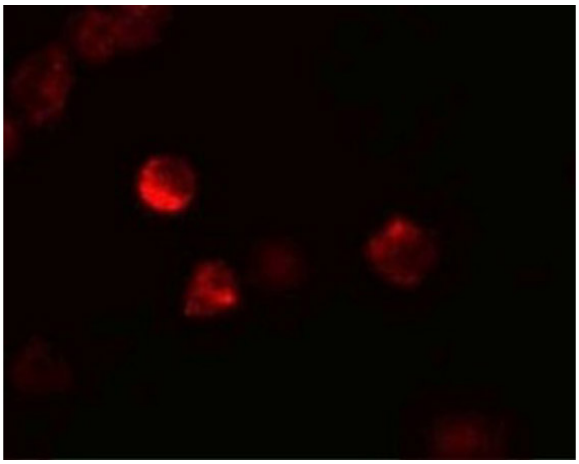
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

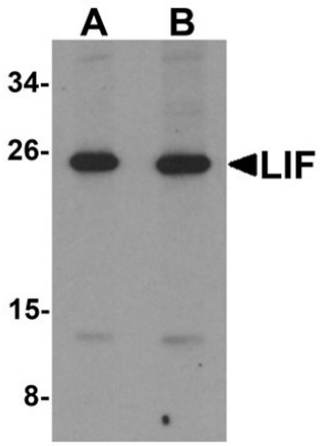
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

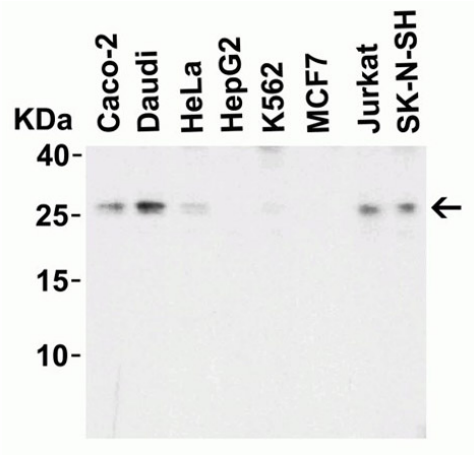
Images



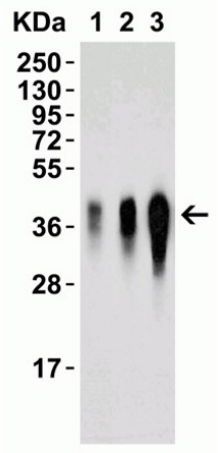
Immunofluorescence Microscopy
Immunofluorescence Validation of LIF.
Cell: Mouse 3T3 Cells.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: LIF at 20 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).



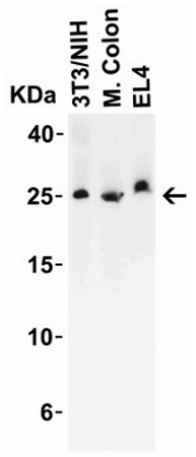
Western Blot
Western Blot Validation of LIF.
Load: 15 µg of mouse 3T3 lysates per lane.
Primary Antibody: LIF at (lane A: 1 µg/mL, lane B: 2 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



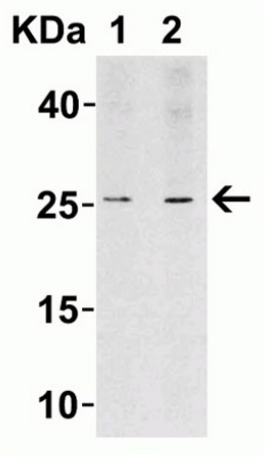
Western Blot
Western Blot Validation of LIF.
Load: 15 µg of human lysates per lane. Lane 1: Caco-2, Lane 2: Daudi, Lane 3: HeLa, Lane 4: HepG2, Lane 5: K562, Lane 6: MCF7, Lane 7: Jurkat, Lane 8: SK-N-SH.
Primary Antibody: LIF at 1µg/mL at 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of LIF.
Load: 15 µg of recombinant protein per lane.
Primary Antibody: LIF at (Lane 1: 1 µg/mL, lane 2: 2µg/mL, lane 3: 4 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of LIF.
Load: 15 µg of Mouse cell and tissue lysates per lane. Lane 1: 3T3/NIH, Lane 2: Mouse Colon, Lane 3: EL4.
Primary Antibody: LIF, (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of LIF.
Load: 15 µg of rat lung lysates per lane.
Primary Antibody: LIF at (lane 1: 1 µg/mL, lane 2: 2 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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