

Rat LIFR/CD118 ELISA Kit | LIFR/CD118 elisa kit

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CATALOG #
AAA258503

REACTIVITY
Rat

PRODUCT SYNONYMS

LIFR/CD118; Rat LIFR/CD118 ELISA Kit; LIFR ELISA Kit; Rat; leukemia inhibitory factor receptor alpha; LIFR/CD118 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	For the quantitative determination of Rat LIFR/CD118 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	46.88-3000pg/mL
Sensitivity	13pg/mL
Conjugation	HRP
Interference	Preparations of human LIFR, LTF and mouse LIFR, LTF at 50ng/mL in a mid-range recombinant rat LIFR control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

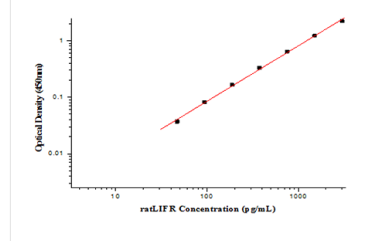
IMAGES

Recombinant human			
LIFR	LIF		
Recombinant mouse			
LIFR	LIF		
Recombinant rat			
IL1B	IL2	IL10	IL12B
TNFa	IL6	IFN gama	CCL3
TIMP1	CSF2	VEGF164	

Application Data

This assay recognizes both recombinant and natural Rat LIFR. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
46.88	0.037
93.75	0.081
187.5	0.166
375	0.331
750	0.641
1500	1.212
3000	2.206



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for LIFR/CD118 elisa kit	This LIFR ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat LIFR protein in Serum. It contains recombinant Rat LIFR, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: LIFR (leukemia inhibitory factor receptor) belongs to the family of cytokine receptors. LIFR forms a high-affinity receptor complex with gp130, which mediates the activity of LIF (leukemia inhibitory factor) and thus affects the differentiation, proliferation, and survival of a wide variety of cells in the adult and the embryo. Besides LIF, LIFR can also bind to and activate CNTF (ciliary neurotrophic factor) and CLC (Cardiotrophin Like Cytokine). Evidence showed that in the retina, LIFR activating LIF, CT-1, and Cardiotrophin Like Cytokine (CLC) are strongly upregulated in response to preconditioning with bright cyclic light leading to robust activation of signal transducer and activator of transcription-3 (STAT3) in a time-dependent manner. Further, blocking LIFR activation during preconditioning using a LIFR antagonist (LIF05) attenuated the induced STAT3 activation and also resulted in reduced preconditioning-induced protection of the retinal photoreceptors. These data demonstrate that LIFR and its ligands play an essential role in endogenous neuroprotective mechanisms triggered by preconditioning-induced stress. LIFR was newly found to be a suppressor of hepatocellular carcinoma (HCC), one of the world's top five causes of cancer-related deaths.
References	Gearing, D.P. et al., 1991, EMBO J. 10 (10): 2839-2848. Gearing, D.P. et al., 1992, New Biol. 4 (1): 61-65. Mosley, B. et al., 1996, J. Biol. Chem. 271 (51): 32635-32643. Timmermann, A. et al., 2002, Eur. J. Biochem. 269 (11): 2716-2726. Lass, A. et al., 2002, Fertil. Steril. 76 (6): 1091-1096.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/lifr-cd118/258503>