For Research Use Only

LIFR Polyclonal antibody

Catalog Number:22779-1-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
22779-1-AP

Concentration:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG18742

GenBank Accession Number:
BC153096

GeneID (NCBI):
3977

UNIPROT ID:
P42702

Full Name:
leukemia inhibitory factor receptor alpha

Calculated MW:
1097 aa, 124 kDa

Observed MW:
190 kDa, 170 kDa

Purification Method:
Antigen Affinity purified

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human skeletal muscle tissue, HeLa cells, human placenta tissue, mouse skeletal muscle tissue

IP : mouse skeletal muscle tissue,

IHC : human skeletal muscle tissue, human kidney tissue, human placenta tissue, mouse cerebellum tissue, mouse skeletal muscle tissue

IF-P : mouse cerebellum tissue,

IF/ICC : HeLa cells,

Background Information

LIFR, also known as CD118, is a subunit of a receptor for leukemia inhibitory factor (LIF). LIF is a pleiotropic cytokine of the interleukin-6 family which affects the differentiation, survival, and proliferation of a wide variety of cells in the adult and the embryo. LIFR is the low-affinity binding chain that, together with the high-affinity converter subunit gp130, forms a high-affinity receptor complex that mediates the action of LIF. The high-affinity complex also binds a related cytokine, oncostatin M (PMID: 8999038). LIFR has also been identified as a breast cancer metastasis suppressor that functions through the HIPPO-YAP pathway (PMID: 23001183). LIFR appeared as doublets with 190 and 170 kDa (PMID: 10858440). They represented different glycosylated forms of the LIFR in different steps of protein maturation.

Notable Publications

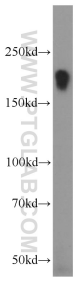
Author	Pubmed ID	Journal	Application
Yuta Kurashina	31701022	Commun Biol	WB
Ming-Ying Ling	36326546	Arch Biochem Biophys	IHC
Chikahiro Imashiro	29993416	IEEE Trans Biomed Eng	WB

Storage

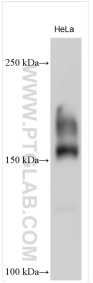
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

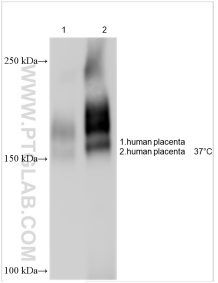
Selected Validation Data



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 22779-1-AP (LIFR antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 22779-1-AP (LIFR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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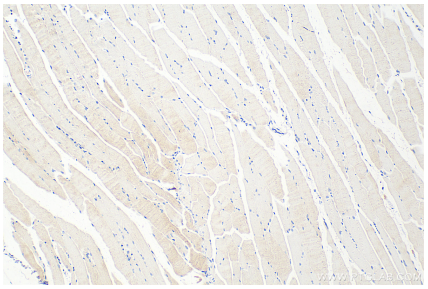
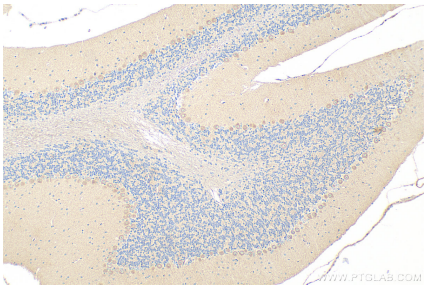


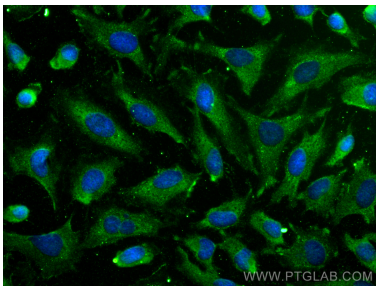
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 22779-1-AP (LIFR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



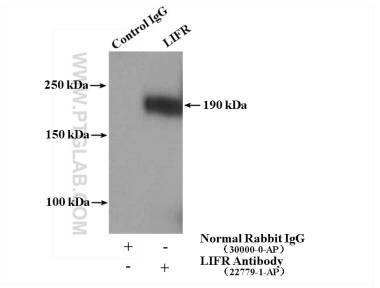
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 22779-1-AP (LIFR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 22779-1-AP (LIFR Antibody) at dilution of 1:200 (under 10x lens).

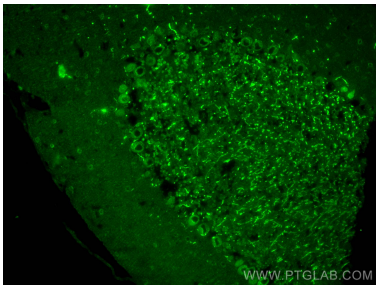
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 22779-1-AP (LIFR Antibody) at dilution of 1:200 (under 40x lens).

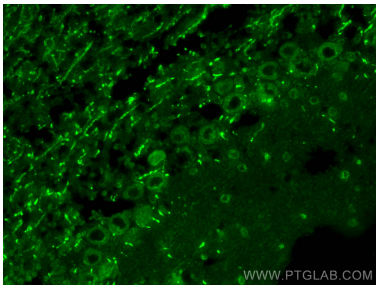


Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using LIFR antibody (22779-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



IP result of anti-LIFR (IP:22779-1-AP, 4ug; Detection:22779-1-AP 1:1000) with mouse skeletal muscle tissue lysate 4000ug.





Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using LIFR antibody (22779-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

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