

Product datasheet

Anti-LIFR antibody [EPR24865-56] ab300551

Recombinant RabMAb

4 Images

Overview

Product name	Anti-LIFR antibody [EPR24865-56]
Description	Rabbit monoclonal [EPR24865-56] to LIFR
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt (Intra), ICC/IF or IHC-P
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HeLa, T-47D, MDA-MB-231 whole cell lysates; HepG2 lysate treated with Protein Deglycosylation Mix II. IP; HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24865-56

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab300551 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000.
IP		1/30.

Application notes

Is unsuitable for Flow Cyt (Intra), ICC/IF or IHC-P.

Target

Function

Signal-transducing molecule. May have a common pathway with IL6ST. The soluble form inhibits the biological activity of LIF by blocking its binding to receptors on target cells.

Involvement in disease

Defects in LIFR are the cause of Stueve-Wiedemann syndrome (SWS) [MIM:601559]; also known as Schwartz-Jampel syndrome type 2 (SJS2). SWS is a severe autosomal recessive condition and belongs to the group of the bent-bone dysplasias. SWS is characterized by bowing of the lower limbs, with internal cortical thickening, wide metaphyses with abnormal trabecular pattern, and camptodactyly. Additional features include feeding and swallowing difficulties, as well as respiratory distress and hyperthermic episodes, which cause death in the first months of life. The rare survivors develop progressive scoliosis, spontaneous fractures, bowing of the lower limbs, with prominent joints and dysautonomia symptoms, including temperature instability, absent corneal and patellar reflexes, and smooth tongue.

Note=A chromosomal aberration involving LIFR is found in salivary gland pleomorphic adenomas, the most common benign epithelial tumors of the salivary gland. Translocation t(5;8) (p13;q12) with PLAG1.

Sequence similarities

Belongs to the type I cytokine receptor family. Type 2 subfamily.
Contains 6 fibronectin type-III domains.

Domain

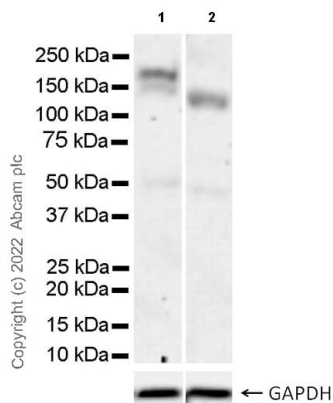
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Cellular localization

Secreted and Cell membrane.

Images



Western blot - Anti-LIFR antibody [EPR24865-56] (AB300551)

All lanes : Anti-LIFR antibody [EPR24865-56] (ab300551) at 1/1000 dilution

Lane 1 : Untreated HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

Lane 2 : HepG2 lysate treated with Protein Deglycosylation Mix II

Lysates/proteins at 20 µg per lane.

Secondary

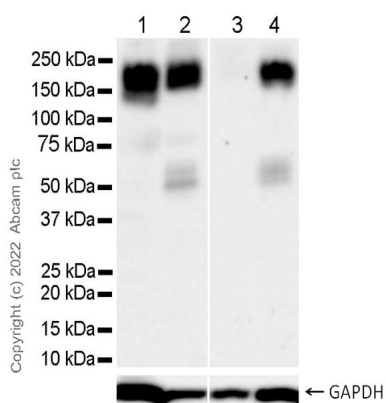
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Observed band size: 120,180 kDa

Blocking and diluting buffer and concentration: 5% NFDN/TBST

LIFR is a glycoprotein of approximately 180 kDa and detected as a 120 kDa band after treated with Protein Deglycosylation MIX II.

Exposure time: 3 minutes



Western blot - Anti-LIFR antibody [EPR24865-56] (AB300551)

All lanes : Anti-LIFR antibody [EPR24865-56] (ab300551) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lane 2 : PANC-1 (human pancreatic epithelioid carcinoma epithelial cell), whole cell lysate

Lane 3 : T-47D (human ductal breast epithelial tumor epithelial cell), whole cell lysate

Lane 4 : MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at

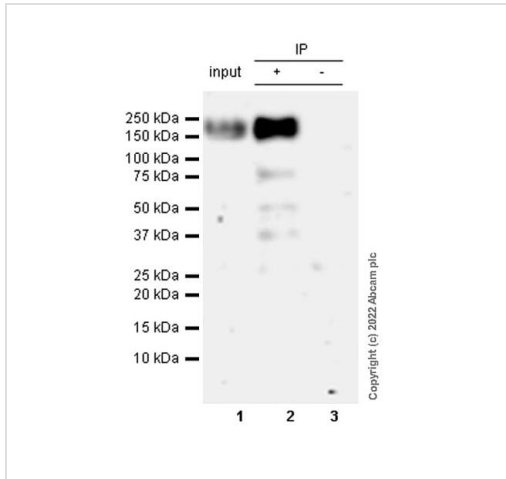
1/100000 dilution

Observed band size: 180 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST

Negative control: T-47D (PMID: 23001183)

Exposure time: 59 seconds



Immunoprecipitation - Anti-LIFR antibody
[EPR24865-56] (AB300551)

LIFR was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with ab300551 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300551 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) ([ab131366](#)) was used at 1/5000 dilution.

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab300551 IP in HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate





Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab300551 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 145 seconds

The bands beneath the target band in lane 2 are expected to be degradation products.

Why choose a recombinant antibody?

- **Research with confidence**
Consistent and reproducible results
- **Long-term and scalable supply**
Recombinant technology
- **Success from the first experiment**
Confirmed specificity
- **Ethical standards compliant**
Animal-free production

Anti-LIFR antibody [EPR24865-56] (AB300551)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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