

### Anti-Leptin Receptor antibody [EPR23802-65] ab282571

**重组** RabMAb

#### 3 图像

#### 概述

|       |  |
|-------|--|
| 产品名称  | Anti-Leptin Receptor抗体[EPR23802-65]  |
| 描述    | 兔单克隆抗体[EPR23802-65] to Leptin Receptor   |
| 宿主    | Rabbit   |
| 经测试应用 | <b>适用于:</b> WB, IP<br><b>不适用于:</b> Flow Cyt, ICC/IF or IHC-P   |
| 种属反应性 | <b>与反应:</b> Human  |
| 免疫原   | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.   |
| 阳性对照  | WB: K-562 lysates. IP: K-562 cells.  |
| 常规说明  | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .<br>Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> . |

#### 性能

|      |   |
|------|---|
| 形式   | Liquid  |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| 存储溶液 | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA  |
| 纯度   | Protein A purified  |
| 克隆   | 单克隆   |
| 克隆编号 | EPR23802-65   |
| 同种型  | IgG   |

## 应用

## The Abpromise guarantee

**Abpromise™** 承诺保证使用ab282571于以下的经测试应用

**“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。**

| 应用 | Ab评论 | 说明   |
|----|------|--|
| WB |      | 1/1000. Predicted molecular weight: 132 kDa. |
| IP |      | 1/30.  |

## 应用说明

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

## 靶标

## 功能

Receptor for obesity factor (leptin). On ligand binding, mediates signaling through JAK2/STAT3. Involved in the regulation of fat metabolism and, in a hematopoietic pathway, required for normal lymphopoiesis. May play a role in reproduction. Can also mediate the ERK/FOS signaling pathway.

### 组织特异性

Isoform A is expressed in fetal liver and in hematopoietic tissues and choroid plexus. In adults highest expression in heart, liver, small intestine, prostate and ovary. Low level in lung and kidney. Isoform B is highly expressed in hypothalamus.

## 序列相似性

Belongs to the type I cytokine receptor family. Type 2 subfamily.  
Contains 4 fibronectin type-III domains.  
Contains 1 Ig-like (immunoglobulin-like) domain.

## 结构域

The cytoplasmic domain may be essential for intracellular signal transduction by activation of JAK tyrosine kinase and STATs.

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.

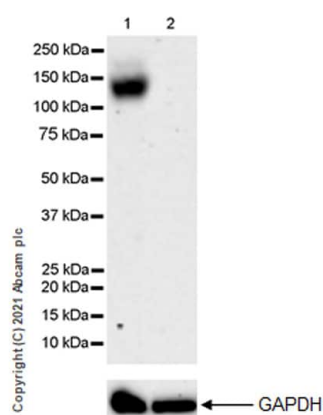
### 翻译后修饰

On ligand binding, phosphorylated on two conserved C-terminal tyrosine residues (isoform B only) by JAK2. Tyr-986 is required for complete binding and activation of PTPN11, ERK/FOS activation and, for interaction with SOCS3 (By similarity). Phosphorylation on Tyr-1141 is required for STAT3 binding/activation.

## 细胞定位

Secreted and Cell membrane.

图片



Western blot - Anti-Leptin Receptor antibody  
[EPR23802-65] (ab282571)

**All lanes :** Anti-Leptin Receptor antibody [EPR23802-65]  
(ab282571) at 1/1000 dilution

**Lane 1 :** K-562 (human chronic myelogenous leukemia  
lymphoblast) whole cell lysate

**Lane 2 :** HepG2 (human hepatocellular carcinoma 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 (Goat Anti-Rabbit IgG, (H+L), Peroxidase  
conjugated)

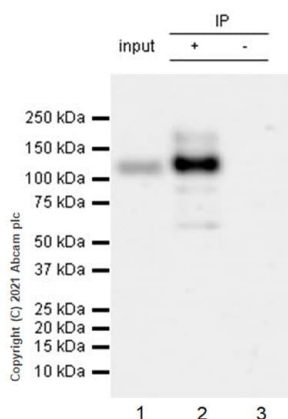
**Predicted band size:** 132 kDa

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

The molecular weight observed is consistent with what has been  
described in the literature (PMID: 10098497).

**Negative control:** HepG2 (PMID:24055508, 22207628).

Exposure time: 125 seconds



Immunoprecipitation - Anti-Leptin Receptor antibody  
[EPR23802-65] (ab282571)

Leptin Receptor was immunoprecipitated from 0.35 mg K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 20 ug with ab282571 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab282571 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 20 ug

**Lane 2:** ab282571 IP in K-562 whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab282571 in K-562 whole cell lysate

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

Exposure time: 32 seconds

### 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-Leptin Receptor antibody [EPR23802-65]  
(ab282571)

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

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