

Product datasheet

Anti-Leptin Receptor antibody ab60042

★★★★☆ 2 Abreviews 3 References 2 图像

概述

产品名称	Anti-Leptin Receptor抗体
描述	兔多克隆抗体to Leptin Receptor
宿主	Rabbit
经测试应用	适用于: ICC/IF, ELISA, IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide (10-30 aa in length) at the N-terminal of first 60 aa of human Leptin Receptor conjugated to KLH
阳性对照	Human hepatocarcinoma tissue. IF/ICC - MCF7 cell line.

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 long term.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: PBS
纯度	Protein G purified
纯化说明	ab60042 is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab60042** in the following tested applications.

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

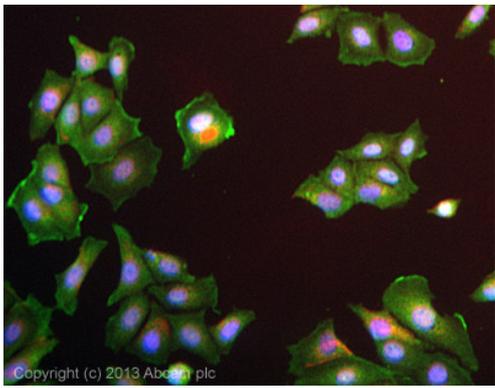
应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.

应用	Ab评论	说明
ELISA		1/1000.
IHC-P	★★★★☆	1/50 - 1/100.

靶标

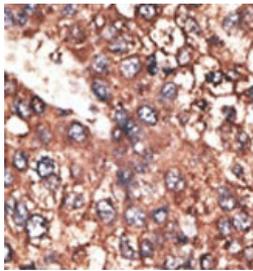
功能	Receptor for obesity factor (leptin). On ligand binding, mediates signaling through JAK2/STAT3. Involved in the regulation of fat metabolism and, in a hematopoietic pathway, required for normal lymphopoiesis. May play a role in reproduction. Can also mediate the ERK/FOS signaling pathway.
组织特异性	Isoform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



Immunocytochemistry/ Immunofluorescence - Anti-Leptin Receptor antibody (ab60042)

ICC/IF image of ab60042 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab60042, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 Goat anti-Rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Leptin Receptor antibody (ab60042)

ab60042 at 1/50-1/100 dilution staining Leptin Receptor in Human hepatocarcinoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue. The primary antibody was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

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