

## Ob-R (Phospho Tyr1141) Rabbit pAb

CatalogNo: YP1200

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, ELISA

#### MW

- 132kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**ELISA 1:5000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho-peptide around the phosphorylation site of human Ob-R (phospho Tyr1141)

**Specificity** Phospho-Ob-R (Y1141) Polyclonal Antibody detects endogenous levels of Ob-R protein only when phosphorylated at Y1141. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): ASyMP

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## | Target Information

**Gene name** LEPR OBR

**Protein Name** Leptin receptor

Organism	Gene ID	UniProt ID
Human	<a href="#">3953</a> ;	<a href="#">P48357</a> ;
Mouse	<a href="#">16847</a> ;	<a href="#">P48356</a> ;

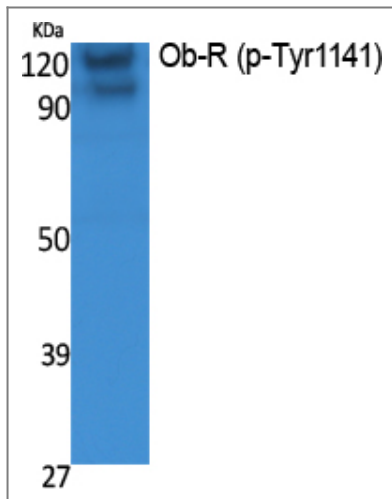
**Cellular Localization** Cell membrane ; Single-pass type I membrane protein . Basolateral cell membrane . ; [Isoform E]: Secreted .

**Tissue specificity** 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 , but also in skeletal muscle. Detected in fundic and antral epithelial cells of the gastric mucosa (PubMed:19159218) . Isoform B and isoform A are expressed by NK cells (at protein level) (PubMed:12504075) .

**Function** Domain:The box 1 motif is required for JAK interaction and/or activation. ,Domain:The cytoplasmic domain may be essential for intracellular signal transduction by activation of JAK tyrosine kinase and STATs. ,Domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. ,Function: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. ,PTM: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. ,similarity:Belongs to the type I cytokine receptor family. Type 2 subfamily. ,similarity:Contains 1 Ig-like (immunoglobulin-like) domain. ,similarity:Contains 4 fibronectin type-III domains. ,subunit:On leptin stimulation , homodimerizes. The phosphorylated receptor binds a number of SH2 domain-containing proteins such as STAT3 , PTPN11 , and SOCS3 (By similarity) . Interaction with SOCS3 inhibits LRb signaling. ,tissue specificity: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. ,

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## | Validation Data



Western Blot analysis of extracts from K562 cells, using Phospho-Ob-R (Y1141) Polyclonal Antibody.

## Contact information

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**Ob-R (Phospho Tyr1141) Rabbit pAb**

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