

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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

| Target Information

Gene name LEPR OBR

Protein Name Leptin receptor

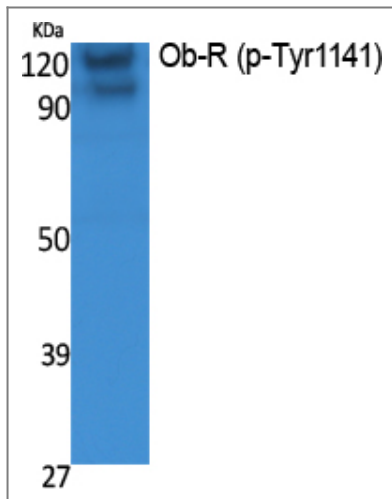
Organism	Gene ID	UniProt ID
Human	3953 ;	P48357 ;
Mouse	16847 ;	P48356 ;

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. ,

| 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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