

Product datasheet

Leptin Receptor peptide ab5837

概述

产品名称 Leptin Receptor多肽

描述

性质 Synthetic

技术指标

Our [Abpromise guarantee](#) covers the use of **ab5837** in the following tested applications.

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

应用 Blocking

纯度 > 95 % SDS-PAGE.

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

常规信息

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.

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