



Anti-LEP monoclonal antibody, clone 5G13 (DMAB1799MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development.
Specificity	Recognizes recombinant human Leptin and Leptin in human blood
Immunogen	Recombinant Leptin
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	5G13
Purification	>90% pure (SDS-PAGE). Protein A Sepharose chromatography and gel-filtration.
Conjugate	Unconjugated
Applications	Leptin immunoassay. Tested in sandwich immunoassay with human blood samples. Recognizes antigen in human blood with high sensitivity. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. Recommended pair for sandwich immunoassay:

Capture Detection

[DMAB1840MHDMAB1799MH](#)

[DMAB1799MH](#) [DMAB1840MH](#)

[DMAB1799MHDMAB1846MH](#)

Centrifuge before opening to ensure complete recovery of vial contents.

Procedure	Matched Antibody Pairs
Format	Purified, Liquid
Concentration	1mg/ml (Sigma protein assay kit)
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	Store at 2-8°C.
Warnings	This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

GENE INFORMATION

Gene Name	LEP leptin [Homosapiens]
Official Symbol	LEP
Synonyms	OB; OBS; FLJ94114; LEPlentin;obese protein obesity factor; OTTHUMP00000212285; obese, mouse, homolog of; leptin (murine obesity homolog); leptin (obesity omolog, mouse)
Entrez Gene ID	3952
Protein Refseq	NP_000221
UniProt ID	A4D0Y8
Chromosome Location	7q31.3
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Diabetes pathways, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation,

organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Jak-STAT signaling pathway, organism-specifi

Function

growth factor activity; hormone activity; peptide hormone receptor binding
