

Datasheet for ABIN2192046

anti-Leptin Receptor antibody (Soluble)[Go to Product page](#)**1** Publication

Overview

Quantity:	100 µg
Target:	Leptin Receptor (LEPR)
Binding Specificity:	Soluble
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Leptin Receptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoassay (IA)

Product Details

Clone:	2F1
Sterility:	0.2 µm filtered

Target Details

Target:	Leptin Receptor (LEPR)
Abstract:	LEPR Products
Background:	The monoclonal antibody 2F1 reacts with human soluble leptin receptor (sLR) in plasma. Leptin is a cytokine that is primarily expressed by adipose tissue. Leptin controls food intake by its interaction with the leptin receptor in the brain. Leptin action is mediated and controlled by the leptin receptor, a class I type cytokine receptor. sLR is generated by proteolytic cleavage of

Target Details

membrane-anchored receptors. This indicates that the leptin receptor might have other functions besides transduction. Binding of leptin with sLR increases the bioavailability of leptin in plasma, but also decreases the binding of leptin to membrane bound leptin receptors. For example, when comparing obese and lean individuals, plasma levels of sLR are significantly decreased whereas leptin levels are significantly increased. The monoclonal antibody 2F1 specifically reacts with sLR with a molecular mass of 180kD. The 2F1 antibody can be used to measure in both free sLR and sLR bound to leptin in plasma.

Pathways: [JAK-STAT Signaling](#), [AMPK Signaling](#), [Feeding Behaviour](#)

Application Details

Application Notes: For Western blot, immuno assays and immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.02 % sodium azide and 0.1 % bovine serum albumin.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

Publications

Product cited in: van Dielen, van t Veer, Buurman, Greve: "Leptin and soluble leptin receptor levels in obese and weight-losing individuals." in: **The Journal of clinical endocrinology and metabolism**, Vol. 87, Issue 4, pp. 1708-16, (2002) ([PubMed](#)).