

Product datasheet for **AM26359PU-N**

Leptin Receptor (LEPR) (soluble) Mouse Monoclonal Antibody [Clone ID: 2F1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F1
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections: The typical starting working dilution is 1:50. Immunohistochemistry on paraffin sections: The typical starting working dilution is 1:50. Immunoassays (coating): The typical starting working dilution is 1:50. Western blot: The typical starting working dilution is 1:50.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody 2F1 reacts with human soluble leptin receptor (sLR) in plasma. It specifically reacts with sLR with a molecular mass of 180kD. The antibody can be used to measure in both free sLR and sLR bound to leptin in plasma.
Formulation:	PBS State: Purified State: Liquid Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	leptin receptor
Database Link:	Entrez Gene 3953 Human P48357



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Background:

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 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.

Synonyms:

LEP-R, OB receptor, HuB219, LEPR, DB, OBR, OB-R