CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	sLeptin Receptor, Human, clone 2F1		
Catalog number	HM2187-20UG		
Lot number	-	**Expiry date**	-
Volume	200 µl	**Amount**	20 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Mouse IgG1	**Conjugate**	None
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	●	●				●		●
No								
N.D.			●	●	●		●	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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.

- IA: Antibody 2F1 can be used as coating antibody.

General Information

Description

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 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.

References

1. van Dielen, F et al; Leptin and soluble leptin receptor levels in obese and weight-losing individuals. J Clin Endocrinol Metab 2002, 87: 1708

Storage&stability

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

Precautions

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
02/12/2020

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.