


Anti-Leptin antibody [EPR16848-34] - BSA and Azide free ab250477

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Leptin antibody [EPR16848-34] - BSA and Azide free
Description	Rabbit monoclonal [EPR16848-34] to Leptin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Blocking Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab250477 is the carrier-free version of ab181298.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16848-34
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250477 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

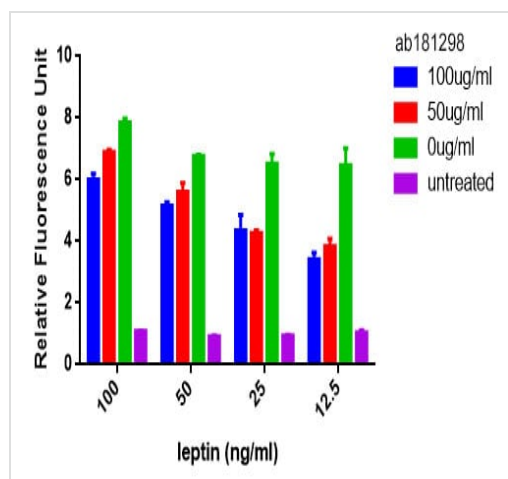
Application	Abreviews	Notes
Blocking		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF.

Target

Function	May function as part of a signaling pathway that acts to regulate the size of the body fat depot. An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass.
Involvement in disease	Defects in LEP may be a cause of obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.
Sequence similarities	Belongs to the leptin family.
Cellular localization	Secreted.

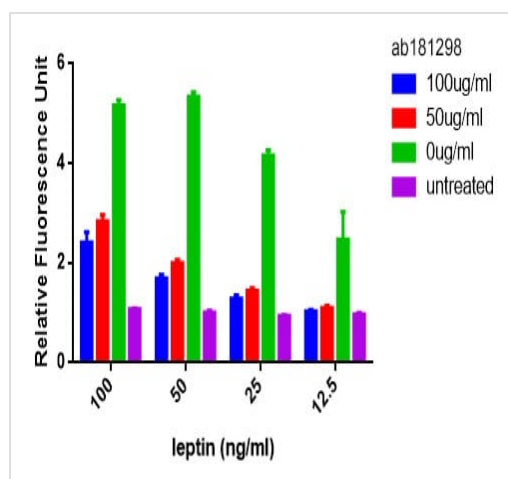
Images



Blocking - Anti-Leptin antibody [EPR16848-34] -
BSA and Azide free (ab250477)

The data was provided by our collaborator Dr. Bing Sun, Chinese Academy of Sciences.

This data was developed using **ab181298**, the same antibody clone in a different buffer formulation. HEK-293 cells were co-transfected with a plasmid encoding the full-length mouse leptin receptor, pRL-CMV and pGL4.47[luc2P/SIE/Hygro] Vectors. Dual-Luciferase® Reporter Assay was used to test the leptin signaling. **ab181298** (0, 50, 100 µg/ml) was incubated with recombinant mouse leptin in a total of 500ul culture medium at the final concentration of 100, 50, 25, and 12.5 ng/ml for 2h at 37°C before adding to transfected cells. Leptin without incubating with **ab181298** as the positive control (green) shows the maximal signal of the leptin and leptin receptor interaction, whereas the base line signal (without adding leptin and **ab181298** to the system) serves as the negative control (purple). The data demonstrates that the interaction of leptin and leptin receptor can be blocked by **ab181298** resulting in decreased fluorescence signals.



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Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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