



Anti-Leptin (a.a. 48~167), Chicken-Polyclonal Antibody

Catalog No. PY-10115

Antigen species: Human

Host species: Chicken

Quantity: 100 μ g

Reactivity: Human, macaque

Form: Antigen affinity purified Antibody

Applications tested: Western Blot

Target description

Leptin, a product of the Obese (*ob*) gene, is an adipocyte-derived hormone that acts as a major regulator for food intake and energy homeostasis. Leptin deficiency or resistance can result in profound obesity, diabetes, and infertility in humans.

Antigen

This polyclonal antibody was raised by immunizing chicken with human leptin fusion protein (48~167 amino acids).

Application

The antibody specificity was assayed by Western blotting with human leptin fusion protein (48~167 amino acids). The antibody titer is more than 3,000 for Western blot analysis. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/3,000 dilution for WB of recombinant protein, 1/1,200 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/100 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-Leptin (1-48), pAb (PY-10114)

KDa

46 —

31 —

24 —

19 —

← Leptin fusion protein

Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 10,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1: 10,000 for ECL (with 1% milk PBS-T) at R.T. for 1 h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1xPBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Zhang F, Chen Y, Heiman M, Dimarchi R. *Vitam Horm.* 2005; 71:345-72.
2. Haynes WG. *Exp Physiol.* 2005 Sep; 90(5):683-8. Epub 2005 Aug 16.

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