

Product datasheet

Anti-Exendin 4 antibody [20] ab23407

★★★★☆ 1 Abreviews 1 References 1 Image

Overview

Product name	Anti-Exendin 4 antibody [20]
Description	Mouse monoclonal [20] to Exendin 4
Specificity	This antibody recognises exendin 4. No cross reactivity with human GLP1, GLP2 or glucagon.
Tested applications	Suitable for: ELISA
Species reactivity	Reacts with Heloderma suspectum (Gila monster). Not yet tested in other species.
Immunogen	Carrier coupled exendin 4.
Epitope	The epitope is located in the region of amino acids 9 to 39 of exendin 4.
General notes	The fusion partner was SP2mL6.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 500mM Sodium chloride, 10mM PBS, pH 7.4
Purity	Protein A purified
Clonality	Monoclonal
Clone number	20
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab23407** 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
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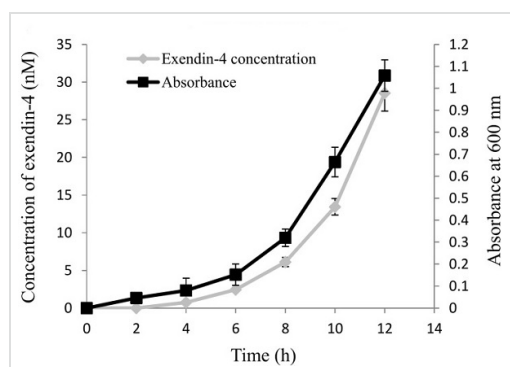
Application	Abreviews	Notes
ELISA	★★★★☆	1/2000. The antibody binds to exendin 4 when coated on ELISA wells and reacts specifically with exendin 4 in solution giving a K_a of 1.6×10^8 in an inhibition ELISA. The binding between ab23407 and exendin 4 is disrupted by 4.5 M $MgCl_2$.

Target

Relevance Exendin 4 is a 39 amino acid peptide found in venom from the Gila monster *Helicoderma suspectum*. It is a member of the glucagon secretin family of peptide hormones and neuropeptides. Exendin 4 is a potent agonist of the GLP1 receptor and hence a potent stimulator of insulin secretion.

Cellular localization Secreted

Images



Indirect ELISA - Anti-Exendin 4 antibody [20]
(ab23407)

Zeng Z et al. PLoS One. 2016 Oct 20;11(10):e0165130.

The concentration of exendin-4 secreted by recombinant *L. paracasei* was measured by indirect ELISA. Standard exendin-4 (0.2 $\mu\text{g/ml}$) was used as the coated antigen. Equal volumes (100 μl) of ab23407 (1/4000) and standard exendin-4 (0–100 nmol/l) or culture supernatant samples of *L. paracasei* L14/pMG76e-exendin-4, preincubated overnight at 4°C, were applied to detect the captured exendin-4. Horseradish peroxidase-conjugated rabbit anti-mouse IgG (100 μl) was used at a 1:10,000 dilution and revealed by reaction with TMBS substrate. Absorption was determined at 450 nm and 630 nm by Multiskan MK3 ELISA plate reader. The exendin-4 concentration was calculated by the standard curve method.

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