

## Anti-Exendin-4

CAT. NO. ABS 012-35

### OVERVIEW

|                            |                           |                    |              |
|----------------------------|---------------------------|--------------------|--------------|
| <b>Product Name</b>        | Anti-Exendin-4            | <b>Conjugation</b> | Unconjugated |
| <b>Description</b>         | Mouse monoclonal antibody | <b>Host</b>        | Mouse        |
| <b>Isotype</b>             | IgG1/k                    | <b>Clone</b>       | 35           |
| <b>Tested Applications</b> | ELISA                     |                    |              |

### SPECIFICITY

|                           |                                                                                                                                                                                                                                                                                                      |                           |                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|
| <b>Specificity</b>        | Specific for exendin-4. No cross-reactivity with GLP-1, GLP-2 (human) or glucagon coated on ELISA wells. The epitope is in the 9-39 region of the peptide, and the antibody cross-reacts strongly with exendin (9-39) amide.                                                                         |                           |                |
| <b>Immunogen</b>          | Synthetic exendin-4                                                                                                                                                                                                                                                                                  | <b>Gene ID</b>            | -              |
| <b>Target</b>             | Exendin-4 is a 39 amino acid peptide found in venom from the Gila monster <i>Heloderma suspectum</i> . It is a member of the glucagon-secretin family of peptide hormones and neuropeptides. Exendin-4 is a potent agonist of the GLP-1 receptor and hence a potent stimulator of insulin secretion. |                           |                |
| <b>Species Reactivity</b> | Gila monster <i>Heloderma suspectum</i>                                                                                                                                                                                                                                                              | <b>Species Reactivity</b> | Not determined |
| <b>POSITIVE</b>           |                                                                                                                                                                                                                                                                                                      | <b>NEGATIVE</b>           |                |

### PROPERTIES

|                          |                                                                         |                           |                 |
|--------------------------|-------------------------------------------------------------------------|---------------------------|-----------------|
| <b>Form</b>              | Liquid                                                                  | <b>Unit Size</b>          | 0,4 mL and 1 mL |
| <b>Concentration</b>     | 1 mg/mL $\pm$ 15%, See CoA for lot details                              |                           |                 |
| <b>Purification</b>      | Protein A or Protein G purified                                         | <b>Purification Notes</b> | BSA free        |
| <b>Storage buffer</b>    | 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide |                           |                 |
| <b>Storage condition</b> | 2-8°C without exposure to light                                         |                           |                 |
| <b>Safety</b>            | Wear protective clothing                                                |                           |                 |

### TESTED APPLICATIONS

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELISA</b> | <p>ABS 012-35 binds to exendin-4 when coated on ELISA wells and reacts specifically with exendin-4 in solution giving a <math>K_a</math> of <math>1.1 \times 10^9</math> in an inhibition ELISA. The binding between ABS 012-35 and exendin-4 is disrupted by 4.5 M MgCl<sub>2</sub>.</p> <p>ABS 012-35 (as biotinylated detection antibody) forms a sandwich ELISA pair with ABS 033-10 (as capture antibody) for measuring exendin-4, giving a detection limit of as little as 40 pmol/L in an unoptimized buffer assay. (1)</p> |
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### SCIENTIFIC REFERENCES

1. Murphy RE, Kihikar AG, Shields MJ, Rosario JD, Preston R, Levin N, Ward GH (2010) Combined use of immunoassay and two-dimensional liquid chromatography mass spectrometry for the detection and identification of metabolites from biotherapeutic pharmacokinetic samples. *Journal of Pharmaceutical and Biomedical Analysis* 53:221-227.

#### CONDITIONS

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