



**Anti Exendin-4
Mouse Monoclonal Antibody**

Subclass: IgG1/k

PRODUCT NO.

ABS 012-35

PRESENTATION

Preparation: Protein-A/G purified
Content: 1 ml, 1 mg/mL
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide
Storage: In the dark at 4-8°C

ANTIGEN

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 GLP-1 receptor and hence a potent stimulator of insulin secretion.

IMMUNOGEN

Carrier-coupled exendin-4

SPECIFICITY

Specific for exendin-4. No cross-reactivity with GLP-1, GLP-2 (human) or glucagon coated on ELISA wells.

EPITOPE SPECIFICITY

There is full reaction with exendin-4 (9-39) when used as coat in ELISA showing an epitope in the 9 - 39 region

REACTIVITY

ABS 012-35 binds to exendin-4 when coated on ELISA wells and reacts specifically with exendin-4 in solution giving a K_a of 1.1×10^9 in an inhibition ELISA. The binding between ABS 012-35 and exendin-4 is disrupted by 4.5 M MgCl₂.

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

SP2mIL6.

IMMUNIZATION

NMRI x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:2000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody on antigen coated directly onto the microtiter well. Users should determine the optimal dilutions for their own purposes.

REFERENCES

- Eng J, Kleinman WA, Singh L, Singh G, Raufman JP (1992) Isolation and characterization of exendin-4, an exendin-3 analogue, from *Heloderma suspectum* venom. Further evidence for an exendin receptor on dispersed acini from guinea pig pancreas. *J Biol Chem* 267:7402-7405.
- Goke R, Fehmann HC, Linn T, Schmidt H, Krause M, Eng J, Goke B (1993) Exendin-4 is a high potency agonist and truncated exendin-(9-39)-amide an antagonist at the glucagon-like peptide 1-(7-36)-amide receptor of insulin-secreting beta-cells. *J Biol Chem* 268:19650-19655.

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.