

Product Datasheet

GLP1 Antibody (4F3) - BSA Free NBP1-97413

Unit Size: 100 ug

Store at 4C in the dark.

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NBP1-97413

GLP1 Antibody (4F3) - BSA Free

Product Information

Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	4F3
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10mM Phosphate (pH 7.4) and 0.5M NaCl

Product Description

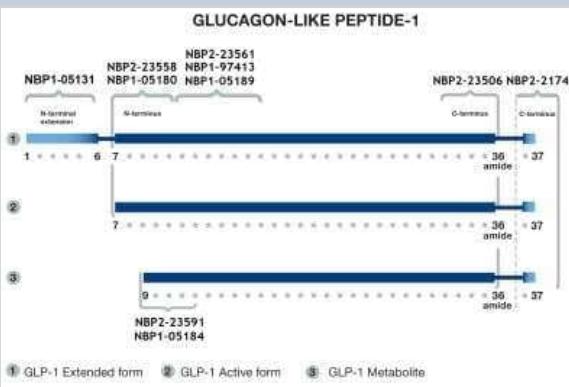
Host	Mouse
Gene ID	2641
Gene Symbol	GCG
Species	Human, Mammal
Reactivity Notes	Human. The sequence of GLP-1 is fully conserved in all mammalian species examined so far.
Specificity/Sensitivity	Reacts with all forms of GLP-1, including precursor and GLP-1(9-37) /GLP-1(9-36amide) metabolite.
Immunogen	Synthetic GLP-1(7-36)amide coupled to carrier and adsorbed onto aluminum hydroxide gel.

Product Application Details

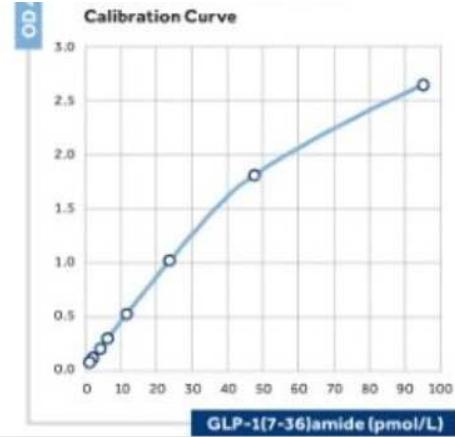
Applications	Western Blot, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000, ELISA 1:100-1:2000, Immunohistochemistry
Application Notes	NBP1-97413 binds to GLP-1 when coated directly onto the microtiter well, and binds GLP-1(7-36)amide in solution giving a K_a of 4.0×10^8 in inhibition ELISA. NBP1-97413 cross-reacts <0.4% with coated glucagon. In inhibition ELISA no binding of free glucagon in solution is detected, giving an estimated cross-reactivity of <0.2%. Although not tested, NBP1-97413 is likely to detect all known molecular forms of GLP-1 in immunohistochemistry. NBP1-97413 can be used as a capture antibody in combination with NBP1-20487 as a detection antibody for measuring non-amidated GLP-1 forms and cross-reacting about 16% with C-terminally amidated GLP-1. Results show detection limits of 44pmol/L which is 10-20 times higher than the basal concentration of GLP-1, so the assays have to be optimized.

Images

Glucagon Antibody (4F3) - BSA Free [NBP1-97413] - BSA Free [NBP1-97413]



ELISA: Glucagon Antibody (4F3) - BSA Free [NBP1-97413] - This uses NBP2-23506 as capture antibody in combination with biotinylated detection antibody NBP1-97413 to measure the sum of GLP-1(7-36)amide, GLP-1(1-36)amide and GLP-1(9-36)amide in biological samples. Relative to measuring the two active forms of GLP-1, the responses are reduced by not measuring the contribution of GLP-1(7-37) to the overall response, but this is compensated for by measuring an approximately equal contribution from GLP-1(1-36)amide. However, the GLP-1(9-36)amide degradation product is also measured, augmenting the response above that of the active forms alone. This assay cannot detect changes in active GLP-1 in response to treatment with DPP-4 inhibitors, and is therefore only suitable for experiments in which changes in GLP-1 degradation are irrelevant.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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