Datasheet for ABIN5012828

Nivolumab Antibody ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	Nivolumab Antibody
Reactivity:	Human, Monkey, Mouse, Rat
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Enzyme immunoassay for the semi-quantitative determination of free antibodies to Nivolumab (Opdivo®) in serum and plasma.
Sample Type:	Plasma, Serum
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Components:	plate, standards, assay buffer, conjugate, TMB, HCl, wash buffer
Material not included:	normal lab equipment for performing ELISA assays

Target Details

Target:	Nivolumab Antibody
Target Type:	Antibody
Background:	The drug Nivolumab (Opdivo®) is a fully human IgG4 monoclonal antibody that binds specifically to programmed death-1 (PD-1), a negative regulatory receptor expressed by activated T and B lymphocytes. Binding of Nivolumab to the PD-1 receptor blocks its interaction

Target Details

	with the ligands, PDL1 and PD-L2, thereby attenuating PD-1-mediated inhibition of the immune response, including the anti-tumor immune response. One of the major concerns, despite of its wide usage, is the potential development of anti-drug antibodies (ADA) which in turn may interfere with the drug efficacy as mainly judged by observing the relapse of signs and symptoms of disease and necessitate dose-escalation or potentially ending up the treatment. The "Antibody to Nivolumab" ELISA Kit can be used for the measurement of free antibodies against this drug. It does not detect such antibodies which already are bound to the drug.

Application Details

Sample Volume:	20 µL
Assay Time:	1.5 h
Plate:	Pre-coated
Protocol:	This anti-drug antibody(ies) (ADA) kit is a bridging type ELISA for the determination of free antibodies against the drug Nivolumab in serum and plasma samples. During the first incubation period, ADA in serum or plasma samples are captured by the drug coated on the microtiter wells. After washing away the unbound components from samples, a peroxidase-labelled drug conjugate is added and then incubated. ADA, if present in sample, will make a bridge, with its identical Fab arms, between the drug coated on the well and the other drug molecule labelled with peroxidase. After a second washing step, the bound enzymatic activity is detected by addition of tetramethylbenzidine (TMB) chromogen-substrate. Finally, the reaction is terminated with stop solution. The positive reaction is expected to be related to the presence of ADA in the sample.
Reagent Preparation:	Just the wash buffer has to be prepared by diluting the stock solution 1:20. All other reagents are ready to use.
Sample Collection:	normal serum or plasma collection
Sample Preparation:	dilute the samples 1:20 with assay buffer
Calculation of Results:	The results are read from a standard curve.
Assay Precision:	< 10%
Restrictions:	For Research Use only

Handling

Preservative:	Sodium azide

Handling

Storage:	4 °C
Expiry Date:	24 months

Images

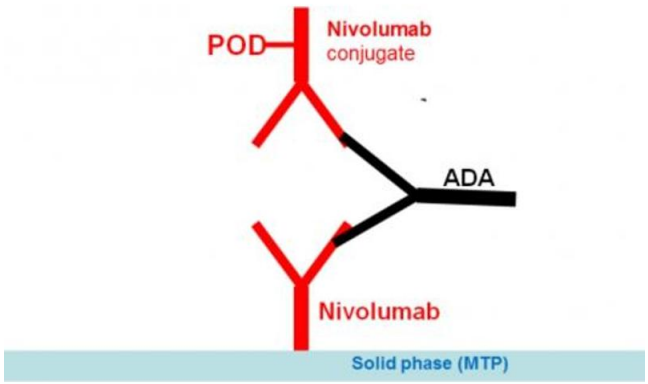

Image 1.

