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# **Bevacizumab Specific ELISA Kit**

**Images** 



#### Overview

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

Product Details	
Purpose:	Enzyme immunoassay for the specific quantitative determination of free Bevacizumab in serum and plasma
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	There is no cross reaction with any other proteins present in native human serum. A screening test was performed with 48 different native human sera. All produced OD450/620 nm values (ranged from 0.022 to 0.042) less than the mean OD (0.132) of standard D (6 ng/mL). In addition, binding of Bevacizumab is inhibited by recombinant human VEGF-A in a concentration dependent manner. Therefore, the Bevacizumab ELISA (mAb-Based) measures the biologically active free form of Bevacizumab, i.e. not pre-occupied by VEGF. No cross reaction was observed with sera spiked with the other therapeutic antibodies including Infliximab, Adalimumab, Etanercept, Rituximab, Tocilizumab, Trastuzumab, Aflibercept and Golimumab at concentrations up to 2 mg/mL. All produced mean OD450/620 nm values ranged from 0.009 to 0.022. In addition, there is no cross reaction with Ranibizumab as well. Because when anti-

#### **Product Details**

	human kappa monoclonal antibody was used as the conjugate instead, Ranibizumab did not bind to MAY-2B5 mAb-coated plate.
Components:	plate, standards, assay buffer, conjugate, TMB, HCl, wash buffer
Material not included:	normal lab equipment for performing ELISA assays

#### **Target Details**

Target:	Bevacizumab Specific
Background:	The drug Bevacizumab (trade name Avastin®) is a recombinant human IgG1: monoclonal antibody specific for all human vascular endothelial growth factor-A (VEGF-A) isoforms and it
	has been approved by the FDA as a first-line treatment for metastatic colorectal cancer in
	combination with chemotherapy. Furthermore, VEGF is implicated in intraocular
	neovascularization associated with diabetic retinopathy and age-related macular degeneration.
	According to the data indicated in the prescribing information and the literature, serum/plasma
	Bevacizumab concentration of patients, under the treatment of Bevacizumab as an intravenous
	(IV) infusion at various doses of 5-15 mg/kg every 2-3 weeks, reported to be ranging from 10 $\mu$
	g/mL as the Cmin to 200 $\mu$ g/mL as the Cmax. Serum through levels might be related to predict
	some clinical outcome during maintenance therapy. It was also possible that the surveillance of
	circulating concentration during maintenance therapy represents a direct and/or indirect factor
	for some other side effects. In this context, identification of biomarkers for (non-) response and
	risk factors for adverse drug reactions that might be related to serum drug levels and
	maintaining the effective concentration in order to potentially avoid some side effects with a
	reliable method might be beneficial.

## **Application Details**

Sample Volume:	20 μL
Assay Time:	1.5 h
Plate:	Pre-coated
Protocol:	This ELISA is based on Bevacizumab-specific mouse monoclonal antibody (catcher Ab, clone
	MAY-2B5). Standards and diluted samples are incubated in the microtiter plate coated with IG-
	MAY-2B5 mAb. After incubation, the wells are washed. A horseradish peroxidase (HRP)-
	conjugated anti-human IgG monoclonal antibody is added and binds to the Fc part of
	Bevacizumab. Following incubation, wells are washed and the bound enzymatic activity is
	detected by addition of chromogen-substrate. The color developed is proportional to the

#### **Application Details**

amount of Bevacizumab in the sample or standard. Results of samples can be determined by
using the standard curve. Binding of Bevacizumab to the solid phase, pre-coated with MAY-2B5,
is inhibited by human VEGF-A in a concentration dependent manner. Therefore, the
Bevacizumab ELISA (mAb-Based) measures the free form of Bevacizumab.

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
Storage:	4 °C
Expiry Date:	24 months

#### **Images**

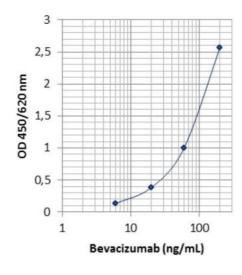


Image 1.

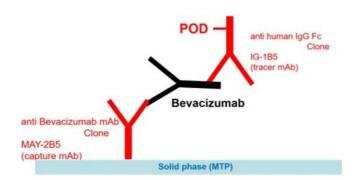


Image 2.