EIA for Quantitative Determination of anti-α1-adrenergic-Receptor-Antibodies

Introduction

The α-1 adrenergic receptor is a G protein-coupled receptor. It consists of three highly homologous subtypes, including α_{1A}-, α_{1B}-, and α_{1D}-adrenergic. Catecholamines like noradrenaline and adrenaline signal through the α_1-adrenergic receptor in the central and peripheral nervous systems. The occurrence of auto- antibodies against α1-adrenergic-receptor is associated with the existence of malignant hypertension.

The CellTrend anti-α1-adrenergic-receptor-antibody-EIA is designed for the determination of Antibodies (IgG) against the α1-adrenergic-receptor in serum and plasma.

Principle of the test

The CellTrend anti-α1-adrenergic-receptor-antibody-EIA is an antibody screening test. The α1-adrenergic-receptor has been pre-coated onto a microtiter plate. During the first incubation the anti-α1-adrenergic-receptor-antibodies of the samples are immobilised on the plate. The auto-antibodies are detected with a POD labeled anti-human IgG antibody. In the following enzymatic substrate reaction the intensity of the colour correlates with the concentration and/ or avidity of anti-α1-adrenergic-receptor-antibodies.

Performance Characteristics

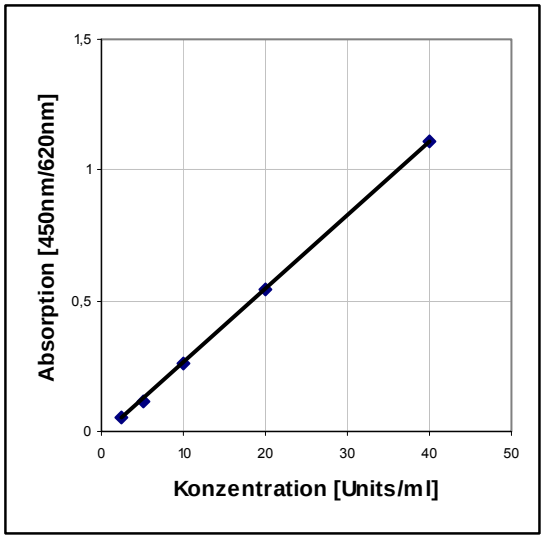
Standard curve:
5 standards between 2,5 U/ml and 40 U/ml
cut off:
7 U/ml

Sample materials:
Serum, Plasma

Intraassay-Precision:
8.77%

Interassay-Precision:
11.83%

Typical Standard Curve



Assay Procedure

Incubation of samples/ standards/ controls	100 µl	120 min, 4°C
Wash		
Incubation of detection antibody	100 µl	1 hr, room temperature
Wash		
Substrate incubation	100 µl/well	20 min, room temperature
Add Stopp solution	100 µl/well	
Read at 450nm		

Order informations

Product	Catalog number	Price (€)
EIA for Quantitative Determination of anti-α1 AR AA, 1x96 determ.	12400	950,-

CE *In vitro*-Diagnostikum

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