



EIA for Quantitative Determination of anti-β1-adrenergic Receptor Antibodies

Introduction

The β-1 adrenergic receptor is a G protein-coupled receptor. β receptors have the subtypes β₁, β₂ and β₃. Agonist binding causes a rise in the intracellular concentration of the second messenger cAMP. The occurrence of auto-antibodies against the β1-adrenergic receptor is associated with the existence of dilated cardiomyopathy (DCM).

The CellTrend anti-β1-adrenergic-receptor-antibody-EIA is designed for the determination of antibodies (IgG) against the β1-adrenergic-receptor in serum and plasma.

Principle of the test

The CellTrend anti-β1-adrenergic receptor antibody EIA is an antibody screening test. The β1-adrenergic receptor has been pre-coated onto a microtiter plate. During the first incubation the anti-β1-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-β1-adrenergic receptor antibodies.

Performance Characteristics

Standard curve:

5 standards between 2,5 U/ml and 40 U/ml

cut off:

15 U/ml

Sample materials:

Serum, Plasma

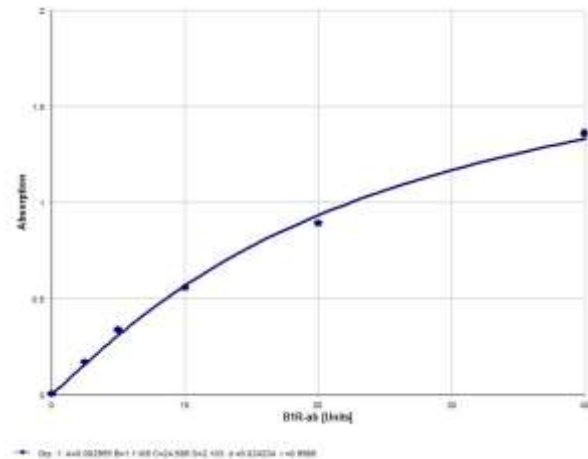
Intraassay-Precision:

3.69%

Interassay-Precision:

5.11%

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-β1 AR AA, 1x96 determ.	12600	950,-

CellTrend In vitro-Diagnostikum