EIA for Quantitative Determination of anti-Endothelin Receptor A (ETA)-Antibodies

Introduction

Endothelins (ET) are 21-amino acid vasoconstricting peptides produced primarily in the endothelium having a key role in vascular homeostasis. It mediates the effects through G-Protein-coupled receptors, the Endothelin receptors. There are two key receptor types, ET_A and ET_B. ETA receptors are found in the smooth muscle tissue of blood vessels where they increase vasoconstriction by ET-1.

The CellTrend anti-Endothelin Receptor A Antibody-EIA is designed for the determination of antibodies (IgG) against the Endothelin receptor subtype A in serum and plasma.

Principle of the assay

The CellTrend anti-Endothelin Receptor A-Antibody-EIA is an antibody screening test. Endothelin-receptor A has been pre-coated onto a microtiter plate. During the first incubation the anti-Endothelin receptor A-Antibodies of the samples are immobilised on the plate. The autoantibodies 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-Endothelin receptor A-antibody.

Performance Characteristics

Standard curve:
5 standards between 2.5 U/ml and 40 U/ml

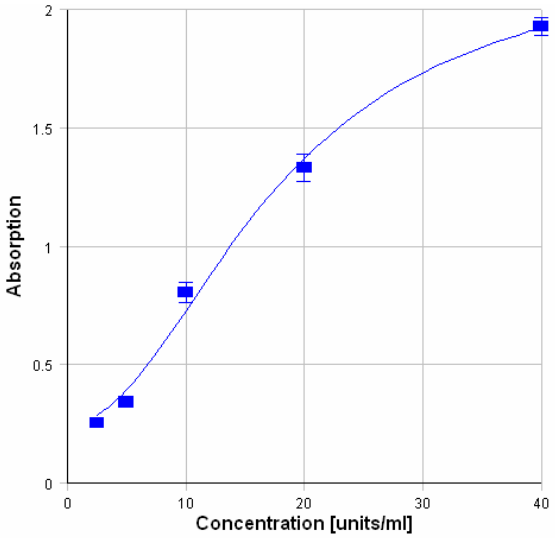
cut off:
20 U/ml

Sample materials:
Serum, Plasma

Intraassay-Precision:
10.01%

Interassay-Precision:
12.81%

Typical Standard Curve



Assay Procedure

Incubation of samples/ standards/ controls	100 µl	2 hrs, 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-ETR-A-Ab, 1x96 determ.	12100	1.400,-

CE *In vitro*-Diagnostikum

CellTrend GmbH, Im Biotechnologiepark TGZ II, D-14943 Luckenwalde, email: info@celltrend.de
Phone: +49 (0)3371 / 681 290, FAX: +49 (0)3371 / 681 312 Version: 02/2010