

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 GProtein- coupled receptors, the Endothelin receptors. There are two key receptor types, ETA and ETB. 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. Endothelinreceptor 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

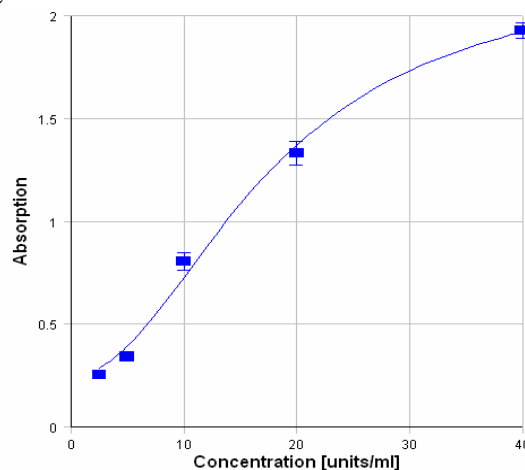
cut off: 20 U/ml

Sample materials: Serum, Plasma

Intraassay-Precision: 10.01%

Interassay-Precision: 12.81%

Typical Standard Curve



Assay Procedure

Incubation of samples/ standards/ controls	100 μ l 2 hrs, 4°C
Wash	
Incubation of detection antibody	100 μ l 1 hr, room temperature
Wash	
Substrate incubation	100 μ l/well 20 min, room temperature
Add Stopp solution	100 μ l/well
Read at 450nm	

GENTAUR