

Human Retinol-binding protein 3 (RBP3) ELISA Kit

Catalog No: #EK7560



Package Size: #EK7560-1 48T #EK7560-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Retinol-binding protein 3 (RBP3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	D10S64; D10S65; D10S66; IRBP; RBPI; interphotoreceptor retinoid-binding protein retinol-binding protein 3 retinol-binding protein 3; interstitial
Accession No.	P10745
Uniprot	P10745
GeneID	5949;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate RBP3 in samples. An antibody specific for RBP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRBP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RBP3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RBP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Retinol-binding protein 3, interstitial (RBP3), also known as IRBP is a protein identified in most eutherians except tenrecs and armadillos.The interphotoreceptor retinol-binding protein is a large glycoprotein known to bind retinoids and found primarily in the interphotoreceptor matrix of the retina between the retinal pigment epithelium and the photoreceptor cells. It is thought to transport retinoids between the retinal pigment epithelium and the photoreceptors, a critical role in the visual process. The human IRBP gene is approximately 9.5 kbp in length and consists of four exons separated by three introns. The introns are 1.6-1.9 kbp long. The gene is transcribed by photoreceptor and retinoblastoma cells into an approximately 4.3-kilobase mRNA that is translated and processed into a glycosylated protein of 135,000 Da.

Note: This product is for in vitro research use only