



## CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Retinol Binding Protein ,Polyclonal anti-Human Affinity Purified (RBP)
AB CONCENTRATION:	Typically > 1mg/ml
CAT. NO:	ICRBP-80A
FORM:	Liquid in PBS, pH 7.2
HOST:	Chicken
IMMUNOGEN:	Human Retinol Binding Protein
PURITY:	Affinity Purified
STORAGE:	2-8C

### What is Retinol Binding Protein:

Human Retinol binding protein (RBP) is responsible for binding and transporting retinol (vitamin A). human retinol binding protein (RBP) has a binding site for one molecule of retinol and circulates in the plasma together with prealbumin in the form of a protein complex in a molar ratio of 1:1. This binding to prealbumin prevents greater glomerular losses of the human retinol-binding protein. Only the retinol-free form of the retinol-binding protein, which has no affinity for prealbumin, undergoes glomerular filtration unhindered as a result of its low molecular weight; human retinol binding protein (RBP) is re-absorbed by the tubular cells and catabolized there.

This explains the elevated serum level of human retinol-binding protein in advanced chronic renal insufficiency. Since human retinol-binding protein and human prealbumin are synthesized in the liver, their serum concentrations are reduced in acute and chronic hepatic diseases. Decreased concentrations of Human Retinol binding Protein (RBP) have also been observed in cystic fibrosis.

Human Retinol binding Protein (RBP) research: Due to the short half-life of human retinol binding protein (RBP) (11 hrs), human retinol binding protein (RBP) is an excellent indicator of early malnutrition. Human Retinol binding Protein (RBP) ref: Veldee MS. Nutrition. In Tietz textbook of clinical chemistry, 2nd ed. CA Burtis and ER Ashwood, eds. 1994; Philadelphia: W.B. Saunders Co., 1261-1263/human retinol

Human Retinol Binding Protein Research: Studies on Two Physiological Forms of the Human Retinol-binding Protein Differing in Vitamin A and Arginine Content. Human Retinol binding Protein (RBP) REF: the Department of Nutrition, Institute of Medical Chemistry, University of Uppsala, Uppsala, Sweden/human retinol

The human retinol-binding protein (RBP) is shown to exist in two main physiological forms each of which displays electrophoretic heterogeneity

Human Retinol binding Protein (RBP) study: Human Retinol-binding Protein and Asialo-orosomuroid Are Taken Up by Different Pathways in Liver Cells. Human Retinol binding Protein (RBP) REF: Volume 270, Number 26, Issue of June 30, pp. 15686-15692, 1995 by The American Society for Biochemistry and Molecular Biology, Inc/human retinol



Human Retinol binding Protein (RBP) research: Reduction of Elevated Human Serum Retinol Binding Protein (RBP4) in Obese Children by Lifestyle Intervention: Association with Sub-clinical Inflammation. Human Retinol binding Protein (RBP) REF: J Clin Endocrinol Metab. 2007 Mar 6/human retinol

Human Retinol Binding Protein study: An ELISA for plasma retinol-binding protein using monoclonal and polyclonal antibodies: Plasma variation in normal and insulin resistant subjects. Human Retinol binding Protein (RBP) ref:

Clinical Biochemistry, 19 April 2007,/human retinol

Human Retinol binding Protein (RBP) research: STRA6, a Cell-Surface Receptor for Retinol-Binding Protein: The Plot Thickens. Human Retinol binding Protein (RBP) ref: Cell Metabolism, Volume 5, Issue 3, 7 March 2007, Pages 164-166/human retinol

Human Retinol binding Protein (RBP) research: Serum retinol binding protein 4 levels are associated with serum adiponectin levels in non-diabetic, non-obese subjects with

hypercholesterolemia. Human Retinol binding Protein (RBP) ref:

Clinica Chimica Acta, Volume 378, Issues 1-2, March 2007, Pages 227-229/human retinol

Human Retinol binding Protein (RBP) research: Retinol binding protein 4 as a candidate gene for type 2 diabetes and prediabetic intermediate traits. Human Retinol binding Protein (RBP) ref: Molecular Genetics and Metabolism, Volume 90, Issue 3, March 2007, Pages 338-344/human retinol

Human Retinol binding Protein (RBP) research: Characterisation of transthyretin and retinol-binding protein in plasma and cerebrospinal fluid of dogs. Human Retinol binding Protein (RBP) ref: The Veterinary Journal, Volume 171, Issue 3, May 2006, Pages 451-455/human retinol

Human Retinol binding Protein (RBP) research: Saturation of retinol-binding protein correlates closely to the severity of alcohol-induced liver disease. Human Retinol binding Protein (RBP) ref: Alcohol, Volume 38, Issue 1, January 2006, Pages 37-43/human retinol

Human Retinol binding Protein (RBP) research: Biochemical basis for retinol deficiency induced by the I41N and G75D mutations in human plasma retinol-binding protein. Human Retinol binding Protein (RBP) ref: Biochemical and Biophysical Research Communications, Volume 336, Issue 4, 4 November 2005, Pages 1017-1022/human retinol