



Anti-RBP3 (aa 1149-1246) polyclonal antibody (DPAB-DC2682)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. The amino acid sequence of human IRBP can be divided into four contiguous homology domains with 33-38% identity, suggesting a series of gene duplication events. In the gene, the boundaries of these domains are not defined by exon-intron junctions, as might have been expected. The first three homology domains and part of the fourth are all encoded by the first large exon, which is 3,180 base pairs long. The remainder of the fourth domain is encoded in the last three exons, which are 191, 143, and approximately 740 base pairs long, respectively.
Immunogen	RBP3 (NP_002891, 1149 a.a. ~ 1246 a.a) partial recombinant protein with GST tag. The sequence is GTAEFTYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTNLYLTIPTARSVGASDGSSWEG VGVTPLVVVPAEEALARAKEMQLQHNQLRVKRSPGLQDH
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl

Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	RBP3 retinol binding protein 3, interstitial [Homo sapiens (human)]
Official Symbol	RBP3
Synonyms	RBP3; retinol binding protein 3, interstitial; IRBP; RBPI; RP66; D10S64; D10S65; D10S66; retinol-binding protein 3; interphotoreceptor retinoid-binding protein;
Entrez Gene ID	5949
Protein Refseq	NP_002891
UniProt ID	P10745
Chromosome Location	10q11.2
Pathway	Disease; Signal Transduction; The retinoid cycle in cones (daylight vision); the visual cycle I (vertebrates).
Function	retinal binding; retinoid binding; retinol binding; serine-type peptidase activity