

Rabbit anti-Mouse RBP3 Polyclonal Antibody | anti-RBP3 antibody

RBP3 Antibody (Center)

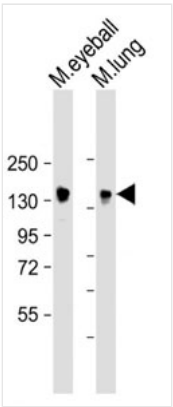
CATALOG # AAA290047	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

RBP3; Polyclonal Antibody; RBP3 Antibody (Center); Retinol-binding protein 3; Interphotoreceptor retinoid-binding protein; IRBP; Interstitial retinol-binding protein; anti-RBP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This RBP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 784-811 amino acids from the Central region of human RBP3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	784-811
Sequence Length	1,247
Applicable Applications for anti-RBP3 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	IRBP shuttles 11-cis and all trans retinoids between the retinol isomerase in the pigment epithelium and the visual pigments in the photoreceptor cells of the retina.
Cellular Location	Secreted, extracellular space, extracellular matrix, interphotoreceptor matrix. Note=Interphotoreceptor matrix that permeates the space between the retina and the contiguous layer of pigment epithelium cells 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
All lanes : Anti-RBP3 Antibody (Center) at 1:2000 dilution
Lane 1: mouse eyeball lysate
Lane2: mouse lung lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 135 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

Related Product Information for anti-RBP3 antibody	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.
Product Categories/Family for anti-RBP3 antibody	Cardiovascular; Neuroscience; Signal Transduction
References	Garcia-Ramirez, M., et al. Diabetologia 52(12):2633-2641(2009) den Hollander, A.I., et al. Invest. Ophthalmol. Vis. Sci. 50(4):1864-1872(2009) Jin, M., et al. J. Neurosci. 29(5):1486-1495(2009) Descamps, F.J., et al. J. Cell. Mol. Med. 12 (6A), 2449-2456 (2008) : Howard, O.M., et al. Blood 105(11):4207-4214(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506453
NCBI GeneID	5949
NCBI Accession #	NP_002891.1
NCBI GenBank Nucleotide #	NM_002900.2

UniProt Accession #	P10745 ; Q0QD34 ; Q5VSR0 ; Q8IXN0
Molecular Weight	135363
NCBI Official Full Name	retinol-binding protein 3
NCBI Official Synonym Full Names	retinol binding protein 3, interstitial
NCBI Official Symbol	RBP3
NCBI Official Synonym Symbols	IRBP; RBPI; RP66; D10S64; D10S65; D10S66
NCBI Protein Information	retinol-binding protein 3
UniProt Protein Name	Retinol-binding protein 3
UniProt Gene Name	RBP3
UniProt Synonym Gene Names	IRBP
UniProt Entry Name	RET3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/rbp3-antibody-western-blot-elisa/290047>