RPIA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPIA, Polyclonal Antibody
Full Product Name	RPIA Antibody, FITC Conjugated
Product Gene Name	anti-RPIA antibody
Product Synonym Names	Ribose-5-phosphate isomerase (EC 5.3.1.6) (Phosphoriboisomerase); RPIA; RPI
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	>95%, Antigen Affinity Purified & Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: RPIA (MBS7135042) FITC Conjugated Antibody: RPIA (MBS7135044)
Molecular Weight	33,269 Da
OMIM	180430
3D Structure	ModBase 3D Structure for P49247
Immunogen	Recombinant Human Ribose-5-phosphate isomerase protein (1-311AA)
Immunogen Species	Human
Conjugate	FITC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RPIA antibody	ELISA (EIA)
Related Product Information for anti-RPIA antibody	MBS7135044 is an antibody targeting RPIA. Also known as RPIA Antibody, FITC Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-RPIA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPIA. It may not necessarily be applicable to this product.

NCBI GI #	94536842
NCBI GeneID	22934
NCBI Accession #	NP_653164.2

UniProt Primary Accession #	P49247
UniProt Secondary Accession #	Q541P9; Q96BJ6
UniProt Related Accession #	P49247
GenBank Nucleotide #	NM_144563.2
NCBI Official Full Name	ribose-5-phosphate isomerase
NCBI Official Synonym Full Names	ribose 5-phosphate isomerase A
NCBI Official Symbol	RPIA
NCBI Official Synonym Symbols	RPI; RPIAD
UniProt Protein Name	Ribose-5-phosphate isomerase
UniProt Synonym Protein Names	Phosphoriboisomerase
Protein Family	Ribose-5-phosphate isomerase
UniProt Gene Name	RPIA
UniProt Synonym Gene Names	RPI
UniProt Entry Name	RPIA_HUMAN
NCBI Protein Information	ribose-5-phosphate isomerase; phosphoriboisomerase; ribose 5-phosphate epimerase
NCBI Summary for RPIA	The protein encoded by this gene is an enzyme, which catalyzes the reversible conversion between ribose-5-phosphate and ribulose-5-phosphate in the pentose-phosphate pathway. This gene is highly conserved in most organisms. The enzyme plays an essential role in the carbohydrate metabolism. Mutations in this gene cause ribose 5-phosphate isomerase deficiency. A pseudogene is found on chromosome 18. [provided by RefSeq, Mar 2010]
UniProt Comments for RPIA	RPIA: Defects in RPIA are the cause of ribose 5-phosphate isomerase deficiency (RPID). A patient has been described with a deficiency of ribose 5-phosphate isomerase who presented with leukoencephalopathy and peripheral neuropathy. Proton magnetic resonance spectroscopy of the brain revealed a highly elevated level of the polyols ribitol and D-arabitol, which were subsequently also found in high concentrations in body fluids. Deficient activity of RPIA, one of the pentose phosphate pathway enzymes, has been demonstrated in fibroblasts. Belongs to the ribose 5-phosphate isomerase family. Protein type: EC 5.3.1.6; Carbohydrate Metabolism - pentose phosphate pathway; Isomerase Chromosomal Location of Human Ortholog: 2p11.2 Cellular Component: intracellular membrane-bound organelle; cytosol Molecular Function: monosaccharide binding; ribose-5-phosphate isomerase activity Biological Process: pentose-phosphate shunt; carbohydrate metabolic process; pentose-phosphate shunt, non-oxidative branch; pathogenesis Disease: Ribose 5-phosphate Isomerase Deficiency
Research Articles on RPIA	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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