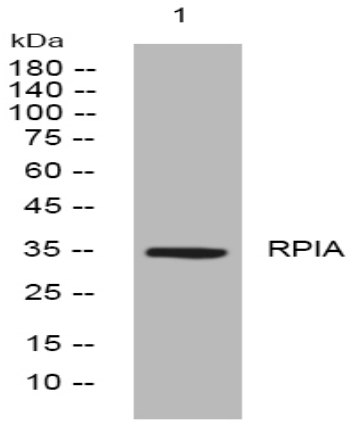
Best Tools for immunology Research

RPIA rabbit pAb

Catalog No :	YT6982
Reactivity :	Human;Mouse
Applications :	WB
Target :	RPIA
Fields :	>>Pentose phosphate pathway;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids
Gene Name :	RPIA RPI
Protein Name :	RPIA
Human Gene Id :	22934
Human Swiss Prot No :	P49247
Mouse Gene Id :	19895
Mouse Swiss Prot No :	P47968
Immunogen :	Synthesized peptide derived from human RPIA AA range: 256-306
Specificity :	This antibody detects endogenous levels of RPIA at Human/Mouse
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1□500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	34kD
Background :	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],
Function :	catalytic activity:D-ribose 5-phosphate = D-ribulose 5-phosphate.,disease:Defects in RPIA are the cause of ribose 5-phosphate isomerase deficiency [MIM:608611]. 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.,pathway:Carbohydrate degradation; pentose phosphate pathway; D-ribose 5-phosphate from D-ribulose 5-phosphate (non-oxidative stage): step 1/1.,similarity:Belongs to the ribose 5-phosphate isomerase family.,
Subcellular Location :	cytosol,integral component of membrane,intracellular membrane-bounded organelle,
Sort :	14604
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western blot analysis of lysates from HuvEc cells, primary antibody was diluted at 1:1000, 4°over night