PGC-1a (Mono-methyl-K224) Antibody

Catalog No: #SAB651

Package Size: #SAB651 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	PGC-1a (Mono-methyl-K224) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was purified from rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Applications	WB
Species Reactivity	Human
Specificity	PGC-1a (Mono-methyl-K224) Antibody detects endogenous levels of PGC-1a only when mono-methylated at lysine 224.
Immunogen Description	A synthesized peptide derived from human PGC-1a around the mono-methylation site of K224.
Other Names	PGC-1-alpha, PPAR-gamma coactivator 1-alpha,PPARGC-1-alpha,Ligand effect modulator 6,LEM6, PGC1, PGC1A, PPARGC1
SDS-PAGE MW	91kDa
Concentration	1 mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.
Storage	Store at --20°C/1 year

Application Details

Western Blot: 1/500 - 1/2000

Background

Transcriptional coactivator for steroid receptors and nuclear receptors. Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter. Can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis. Plays an essential role in metabolic reprogramming in response to dietary availability through coordination of the expression of a wide array of genes involved in glucose and fatty acid metabolism. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner. Also involved in the integration of the circadian rhythms and energy metabolism. Required for oscillatory expression of clock genes, such as ARNTL/BMAL1 and NR1D1, through the coactivation of RORA and RORC, and metabolic genes, such as PDK4 and PEPCK.