

Recombinant Mouse PPAR gamma protein (His tag)

ab236330

1 Image

Description

Product name	Recombinant Mouse PPAR gamma protein (His tag)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P37238</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MGETLGDSPVDPEHGAFADALPMSTSQEITMVDTEMPF WPTNFGISSVDL SVMEDHSHSFDIKPFTTVDFSSISAPHYEDIPFTRADPMVA DYKYDLKLQ EYQSAIKVEPASPPYYSEKTQLYNRPHEEPSNSLMAIECR VCGDKASGFH YGVHACEGCKGFFRRTIRLKLIDRCDLNCRIHKKS RNKCQ YCRFQKCLA VGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLR ALAKHLYDSY IKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKF KHITPLQE QSKEVAIRIFQGCQFRSVEAVQEITEYAKNIPGFINLDLNDQ VTLLKYGV HEIYTMLASLMNKDGVLISEGQGFMTRFLKSLRKPF GDF MEPKFEFAV KFNALELDDSDLAIFIAVII LSGDRPGLLNVPKPIEDIQDNLLQ ALELQLK LNHPESQLFAKVLQKMTDLRQVTEHVQLLHVIKKTETDM SLHPLLQEIYKDLY
Predicted molecular weight	63 kDa including tags
Amino acids	1 to 505
Tags	His tag N-Terminus

Additional sequence information N-terminal 10xHis-tagged.

Specifications

Our **Abpromise guarantee** covers the use of **ab236330** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
pH: 7.2
Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function Receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the receptor binds to a promoter element in the gene for acyl-CoA oxidase and activates its transcription. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis.

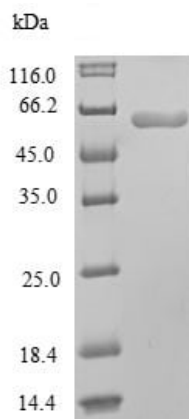
Tissue specificity Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.

Involvement in disease Note=Defects in PPARG can lead to type 2 insulin-resistant diabetes and hypertension. PPARG mutations may be associated with colon cancer.
Defects in PPARG may be associated with susceptibility to obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.
Defects in PPARG are the cause of familial partial lipodystrophy type 3 (FPLD3) [MIM:604367]. Familial partial lipodystrophies (FPLD) are a heterogeneous group of genetic disorders characterized by marked loss of subcutaneous (sc) fat from the extremities. Affected individuals show an increased preponderance of insulin resistance, diabetes mellitus and dyslipidemia. Genetic variations in PPARG can be associated with susceptibility to glioma type 1 (GLM1) [MIM:137800]. Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and ependymomas.
Note=Polymorphic PPARG alleles have been found to be significantly over-represented among a cohort of American patients with sporadic glioblastoma multiforme suggesting a possible contribution to disease susceptibility.

Sequence similarities Belongs to the nuclear hormone receptor family. NR1 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

Cellular localization Nucleus.

Images



SDS-PAGE - Recombinant Mouse PPAR gamma protein (His tag) (ab236330)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab236330.

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