

Certificate of Analysis

Product: Affinity Purified Anti-PPAR delta [Rabbit]

Code: 600-401-420

Lot # 19806

Size: 100 µg

Physical State: Liquid (sterile filtered)

Antibody Concentration: 1.57 mg/ml (by UV absorbance at 280 nm)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at -20° C prior to opening. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening.

Background Information: Since their discovery in the early 1990's, the peroxisome proliferator activated receptors (PPARs) have attracted significant attention. This is primarily because PPARs serve as receptors for two very important classes of drugs: the hypolipidemic fibrates and the insulin sensitizing thiazolidinediones. Peroxisome proliferators are non-genotoxic carcinogens that are purported to exert their effect on cells through their interaction with members of the nuclear hormone receptor family termed PPARs. Nuclear hormone receptors are ligand-dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate ligand. Upon binding fatty acids or hypolipidemic drugs, PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate the expression of target genes. There are 3 known subtypes of PPARs: PPAR-alpha, PPAR-delta and PPAR-gamma. Mostly target genes are involved in the catabolism of fatty acids. Conversely, PPAR-gamma is activated by peroxisome proliferators such as prostaglandins, leukotrienes and anti-diabetic thiazolidinediones and affects the expression of genes involved in the storage of the fatty acids. PPAR-gamma may also be involved in adipocyte differentiation. It has also been shown that PPARs can induce transcription of acyl coenzyme A oxidase and cytochrome P450 through interaction with specific response elements.

Application Note(s): This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a single band approximately 43 kDa in size corresponding to PPAR delta by western blot in the appropriate tissue or cell lysate.

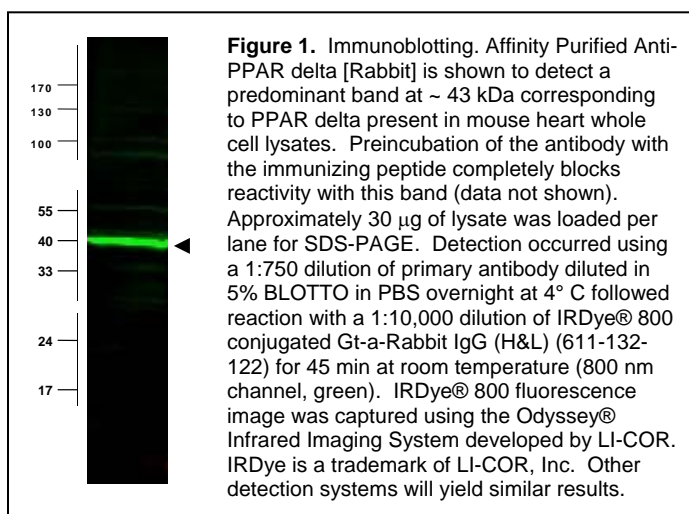
Recommended Dilutions:

ELISA	1:600,000
WESTERN BLOT	1:500 - 1:5,000
IMMUNOHISTOCHEMISTRY	User Optimized
OTHER APPLICATIONS	User Optimized

Purity and Specificity: This affinity purified antibody is directed against mouse PPAR delta protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest reactivity with this protein from mouse and rat sources based on 100% homology for the immunogen sequence. Cross-reactivity with PPAR delta protein from human, chimpanzee and rabbit may occur as this sequence shows 85% homology with the protein from these sources. Cross-reactivity with PPAR delta homologues from other sources has not been determined. No reactivity is expected against other subtypes of PPAR.

Relevant Link(s): Swiss-Prot [P35396](#)

NCBI Link [P35396](#)



Protein Sequence: Mouse PPAR delta, 440 aa, predicted MW 49.7kDa

1	meqpqeeetpe	areeekeeva	mgdgapelng	gpehtlpsss	cadlsqnssp	sslldqlqmg
61	cdgasggsln	mecrvcgdk	sgfhygvhac	egckgffrr	irmkleyekc	drickiqkkn
121	rnkcqycrfq	kclalgmshn	airfgrmpca	ekrklvaglt	asegcqhnpq	ladlkafskh
181	iyнайlknfn	mtkkkarsil	tgksshnapf	vihdietlwq	aekglvwwq	vnglppynei
241	svhvfyrqcs	ttvetvrelt	efaknipnfs	slflndqvlt	lkygvheaif	amlasivnkd
301	gllvangsgf	vtreflrsl	kpfdsiiepk	fefavkfna	elddsdlal	iaaiilcgrd
361	pglmnvpqve	aiqdtlral	efhlqvnhd	sqylfpkllq	kmadlrqlvt	ehaqmmqwlk
421	ktesetllhp	llqeiykdm				

Protein Sequence: Human PPAR delta, 441 aa, predicted MW 49.9kDa

1	meqpqeeape	vreeeekeev	aeagapeln	ggpqhalpss	sytdlsrsss	ppslldqlqm
61	gcdgascgsl	nmecrvcgdk	asgfhygvha	cegckgffrr	tirmkleyek	cersckiqkk
121	nrnkcyrcf	qkclalgmsh	nairfgrmpca	aekrklvagl	tanegsqynp	qvadlkafsk
181	hiynaylknfn	nmtkkkarsil	ltgkashtap	fvihdietlw	qaekglvwwq	lvnglppyne
241	isvhvfyrqcs	cttvvetvrel	tefaksipsf	sslflndqvlt	llkygvheaif	famlasivnkd
301	dglvangsgf	vtreflrsl	rkpfdsiiepk	kfefavkfna	elddsdlal	fiaaiilcgrd
361	rpglmnpvprv	eaiqdtlral	lefhlqanhp	daqylfpkll	qkmadlrqlvt	tehaqmmqri
421	kktetetslh	pllqeiykdm	y			

Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of mouse PPAR delta.

General Reference(s):

Mukherjee, R., *et al.* (1994) Human and rat peroxisome proliferator activated receptors (PPARs) demonstrate similar tissue distribution but different responsiveness to PPAR activators. *J. Steroid Biochem. Mol. Biol.* **51**(3-4):157-166.

Plutzky, J. (2003) PPARs as therapeutic targets: reverse cardiology? *Science* **302**(5644):406-407.

Lee, C.H., *et al.* (2003) Transcriptional repression of atherogenic inflammation: modulation by PPAR delta. *Science* **302** (5644):453-457.

Chinetti, G., *et al.* (2000) Peroxisome proliferator-activated receptors (PPARs): nuclear receptors at the crossroads between lipid metabolism and inflammation. *Inflamm. Res.* **49**(10):497-505.

Lazar, M.A. (2001) Progress in cardiovascular biology: PPAR for the course. *Nat. Med.* **1**:23-24.

Related Products:

#600-401-418	Affinity Purified Anti-PPAR gamma 2 (RABBIT)
#600-401-419	Affinity Purified Anti-PPAR gamma 1 and 2 (RABBIT)
#600-401-420	Affinity Purified Anti-PPAR delta (RABBIT)
#600-401-421	Affinity Purified Anti-PPAR alpha (RABBIT)
#611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
#611-132-122	IRDye800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
#B501-0500	500 g BLOTTO
#BSA-30	500 ml 30% BOVINE SERUM ALBUMIN SOL'N in 0.85% sodium chloride (no preservative or stabilizer)
#B304	10 ml NORMAL GOAT SERUM (NGS)
#KIA-003	MaxTag™ Anti-RABBIT IgG Kit for Immunoblotting
#MB-070	Blocking Buffer for Fluorescent Western Blotting

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.

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