PPARα Rabbit Polyclonal Antibody

Catalog #: EAB13008

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF, ELISA	52	Human, Mouse, Rat

Applications Dilutions

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

WB(Western Blotting)	1:500-2000
IHC-P(Immunohistochemistry-Paraffin)	1:50-300
IF(Immunofluorescence)	1:50-300
ELISA(Enzyme-linked Immunosorbent Assay)	1:5000-20000

Product Information

Conjugate	Unconjugate
Specificity	PPARα Rabbit Polyclonal Antibody detects endogenous levels of PPARα protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol.
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks.
UniProt ID	Q07869
Entrez-Gene ID	5465

Product Descriotion

PPARα also known as PPARalpha, PPARA is a pivotal nuclear hormone receptor that plays a significant role in regulating fatty acid metabolism, lipid homeostasis, and overall energy balance, making PPARα essential for maintaining metabolic health. By forming heterodimers with retinoid X receptors (RXRs), PPARα binds to specific PPAR-response elements (PPREs) in DNA, thereby modulating the transcription of genes involved in lipid metabolism and energy utilization. PPARα functionality is crucial in primary hepatocytes, where PPARα governs the expression of proteins necessary for fatty acid oxidation and overall metabolic processes. Additionally, PPARα interacts with other nuclear receptors such as LXRα and thyroid receptors, which can act as antagonists to PPARα binding with RXRα at PPREs, highlighting the intricate regulatory mechanisms governing lipid metabolism.