



Anti-BBOX1 (aa 278-387) polyclonal antibody (DPAB-DC3473)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes gamma butyrobetaine hydroxylase which catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation.
Immunogen	BBOX1 (NP_003977, 278 a.a. ~ 387 a.a) partial recombinant protein with GST tag. The sequence is IELDDKGQVVRINFNNATRDITFDVPVERVQPFYAALKEFV DLMNSKESKFTFKMNP GDV ITFDNWRL LHGRRSYEAGTEISRHL EGAYADWDV VMSRLRILRQ RVENG N
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [BBOX1 butyrobetaine \(gamma\), 2-oxoglutarate dioxygenase \(gamma-butyrobetaine](#)

[hydroxylase\) 1 \[Homo sapiens \(human\) \]](#)

Official Symbol	BBOX1
Synonyms	BBOX1; butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1; BBH; BBOX; G-BBH; gamma-BBH; gamma-butyrobetaine dioxygenase; gamma-butyrobetaine hydroxylase; gamma-butyrobetaine,2-oxoglutarate dioxygenase 1;
Entrez Gene ID	8424
Protein Refseq	NP_003977
UniProt ID	O75936
Chromosome Location	11p14.2
Pathway	Carnitine synthesis; Lysine degradation; Metabolism of amino acids and derivatives;
Function	gamma-butyrobetaine dioxygenase activity; iron ion binding; zinc ion binding;