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BBOX1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant BBOX1.
Catalog # AT1275a

Product Information

Application	WB, IHC, E
Primary Accession	O75936
Other Accession	NM_003986
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6H3
Calculated MW	44715

Additional Information

Gene ID	8424
Other Names	Gamma-butyrobetaine dioxygenase, Gamma-butyrobetaine hydroxylase, Gamma-BBH, Gamma-butyrobetaine, 2-oxoglutarate dioxygenase, BBOX1, BBH, BBOX
Target/Specificity	BBOX1 (NP_003977, 278 a.a. ~ 387 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	BBOX1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

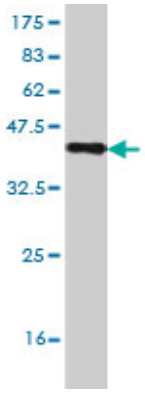
This gene encodes gamma butyrobetaine hydroxylase which catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation.

References

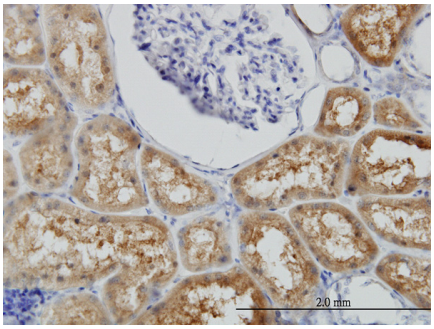
Crystal structure of human gamma-butyrobetaine hydroxylase. Tars K, et al. Biochem Biophys Res Commun, 2010 Aug 6. PMID 20599753.Personalized smoking cessation: interactions between nicotine dose,

dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Coeliac disease-associated risk variants in TNFAIP3 and REL implicate altered NF-kappaB signalling. Trynka G, et al. Gut, 2009 Aug. PMID 19240061.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Genomic structure, alternative maturation and tissue expression of the human BBOX1 gene. Rigault C, et al. Biochim Biophys Acta, 2006 Dec. PMID 17110165.

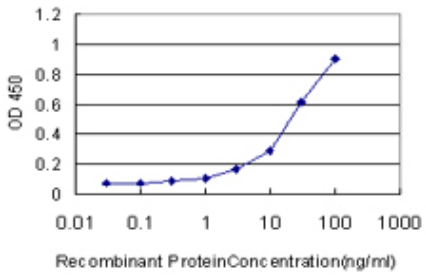
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Immunoperoxidase of monoclonal antibody to BBOX1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged BBOX1 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.