

Product datasheet for **UM500085CF**

BBOX1 Mouse Monoclonal Antibody [Clone ID: UMAB120]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB120
Applications:	IF, IHC, WB
Recommended Dilution:	IHC 1:100~200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human BBOX1 (NP_003977) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44.5 kDa
Gene Name:	gamma-butyrobetaine hydroxylase 1
Database Link:	NP_003977 Entrez Gene 170442 Mouse Entrez Gene 8424 Human O75936



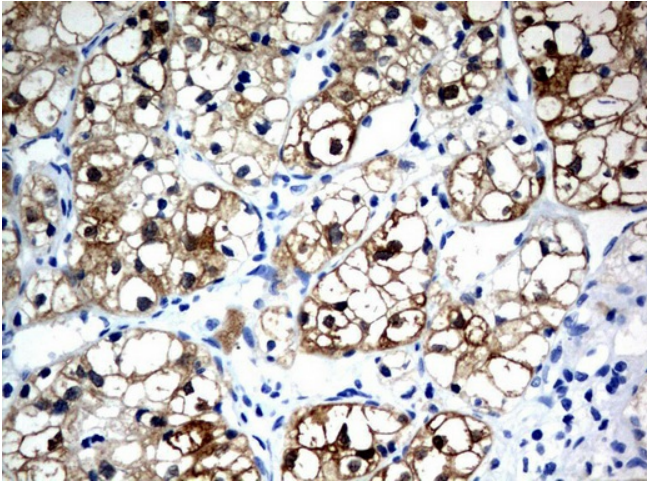
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Background: This gene encodes gamma butyrobetaine hydroxylase which catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation. [provided by RefSeq, Jul 2008]

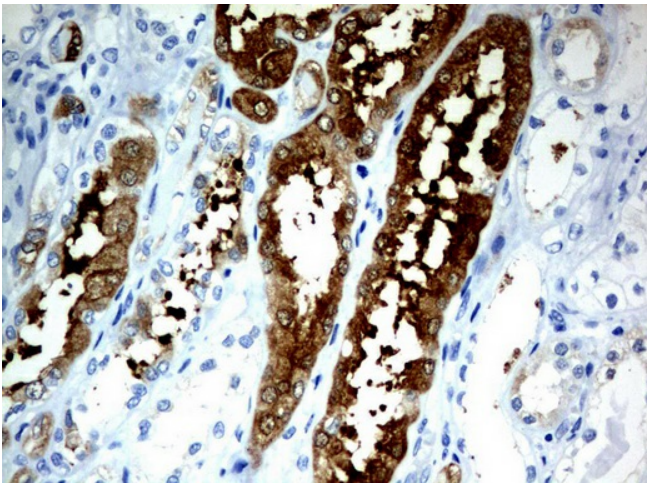
Synonyms: BBH; BBOX; G-BBH; gamma-BBH

Protein Pathways: Lysine degradation

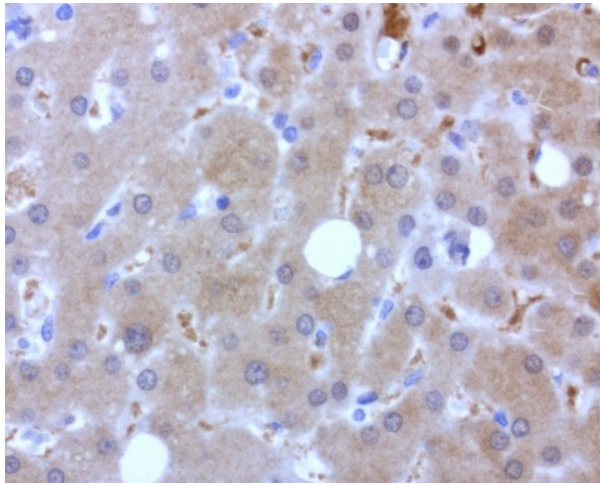
Product images:



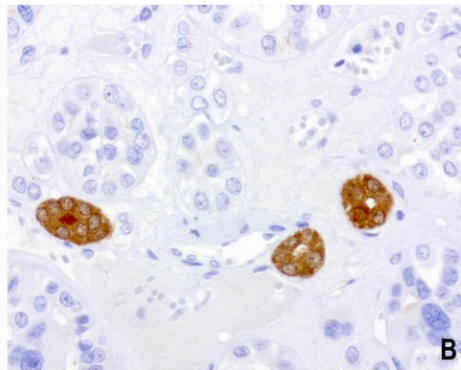
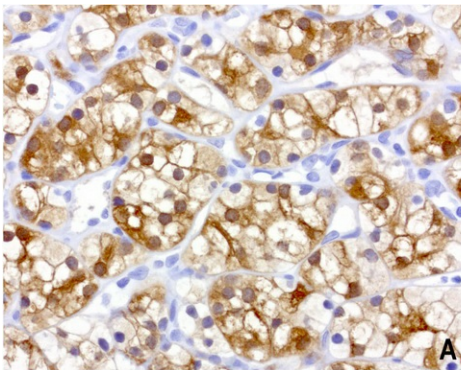
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-BBOX1 mouse monoclonal antibody. ([UM500085]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



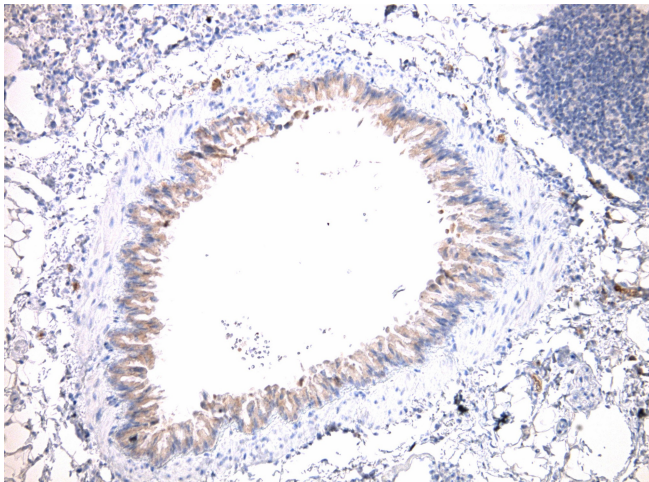
Immunohistochemical staining of paraffin-embedded Human Kidney tissue using anti-BBOX1 mouse monoclonal antibody. ([UM500085]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



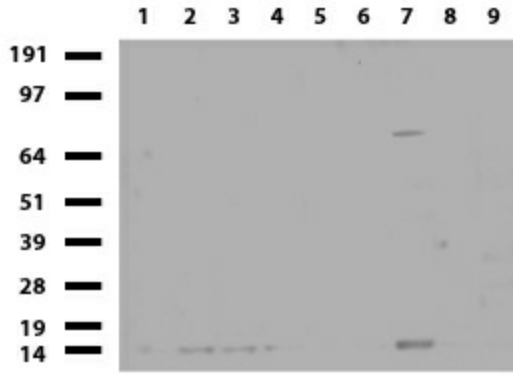
Immunohistochemical staining of paraffin-embedded human liver using anti-BBOX1 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM500085] requires HIER with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The image shows strong cytoplasmic and membrane in the hepatocytes



Immunohistochemical staining of paraffin-embedded human kidney carcinoma using anti-BBOX1 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM500085] requires HIER with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The composite image shows strong cytoplasmic, membrane, and nuclear in panel A tumor cells and no staining in panel B tumor cells but strong staining is normal tubule epithelial cells.



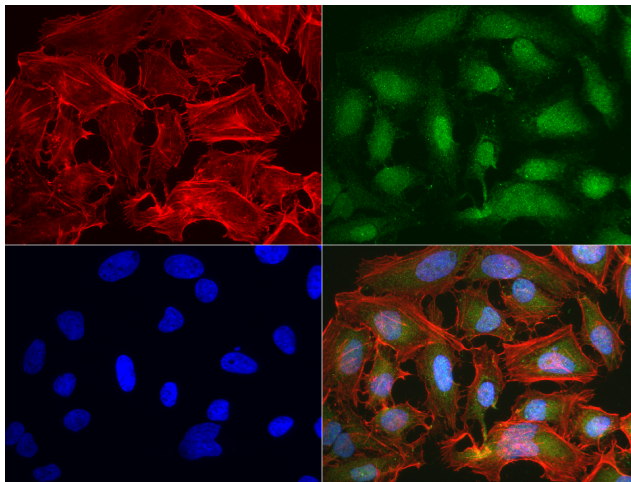
Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-BBOX1 clone UMAB120 mouse monoclonal antibody. HIER ACCEL buffer ([B22C-125]) (pH8.7) at 110C for 10 min, [UM500085] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549, 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12, 9: MCF7). Dilution: 1:250



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Uterus, 3: Omentum, 4: Breast, 5: Brain, 6: Thyroid, 7: Colon, 8: Spleen 9: Liver, 10: Ovary). Dilution: 1:500.



Immunofluorescent staining of HeLa cells using anti-BBOX1 mouse monoclonal antibody ([UM500085], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).