

## Product datasheet for **UM500084**

### **BBOX1 Mouse Monoclonal Antibody [Clone ID: UMAB119]**

#### **Product data:**

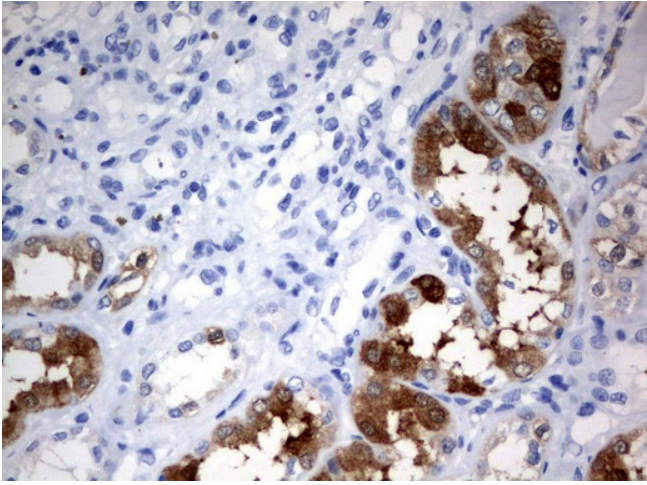
<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	UMAB119
<b>Applications:</b>	10k-ChIP, IF, IHC, WB
<b>Recommended Dilution:</b>	IHC 1:100~200
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human BBOX1 (NP_003977) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.5~1.0 mg/ml (Lot Dependent)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	44.5 kDa
<b>Gene Name:</b>	gamma-butyrobetaine hydroxylase 1
<b>Database Link:</b>	<a href="#">NP_003977</a> <a href="#">Entrez Gene 170442 Mouse</a> <a href="#">Entrez Gene 8424 Human</a> <a href="#">O75936</a>
<b>Background:</b>	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]
<b>Synonyms:</b>	BBH; BBOX; G-BBH; gamma-BBH



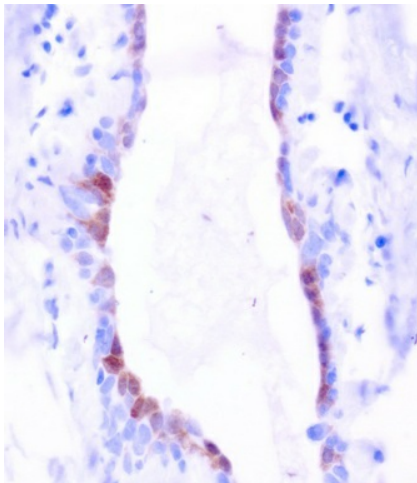
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Protein Pathways: Lysine degradation

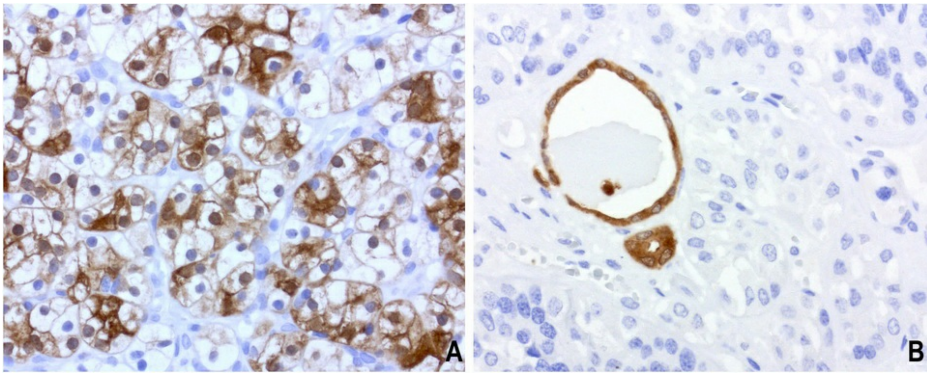
### Product images:



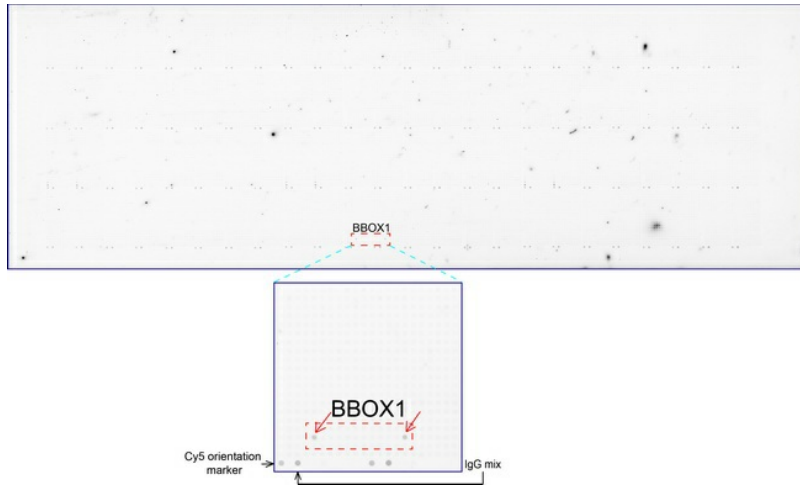
Immunohistochemical staining of paraffin-embedded Human Kidney tissue using anti-BBOX1 mouse monoclonal antibody. (UM500084; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



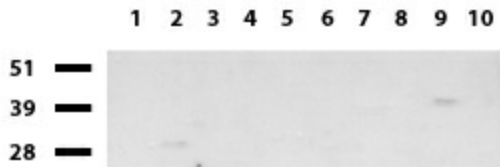
Immunohistochemical staining of paraffin-embedded human breast duct using anti-BBOX1 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. UM500084 requires HIER with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The image shows strong cytoplasmic, membrane, and nuclear staining in ductal epithelial cells.



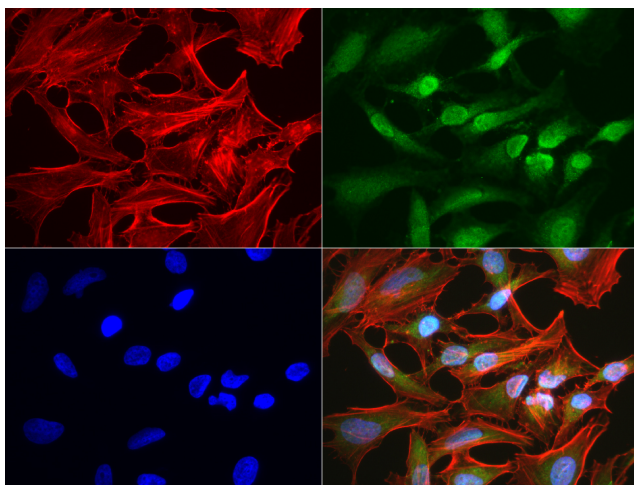
Immunohistochemical staining of paraffin-embedded human kidney carcinoma using anti-BBOX1 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. UM500084 requires HIER with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The composite image 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.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-BBOX1 mouse monoclonal antibody (UM500084). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 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 (UM500084, green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).