

## Product datasheet for **TA806407AM**

### **SHARP1 (BHLHE41) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3H3]**

#### **Product data:**

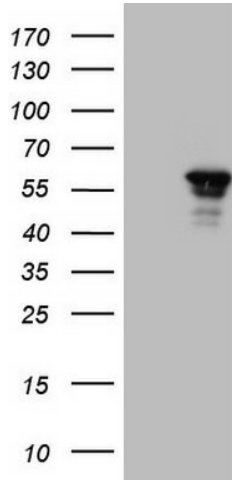
<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3H3
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:150
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 1-297 of human BHLHE41(NP_110389) produced in E.coli.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Biotin
<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>	50.3 kDa
<b>Gene Name:</b>	basic helix-loop-helix family member e41
<b>Database Link:</b>	<a href="#">NP_110389</a> <a href="#">Entrez Gene 79365 Human</a> <a href="#">Q9C0J9</a>
<b>Background:</b>	This gene encodes a basic helix-loop-helix protein expressed in various tissues. The encoded protein can interact with ARNTL or compete for E-box binding sites in the promoter of PER1 and repress CLOCK/ARNTL's transactivation of PER1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation. Defects in this gene are associated with the short sleep phenotype. [provided by RefSeq, Feb 2014]



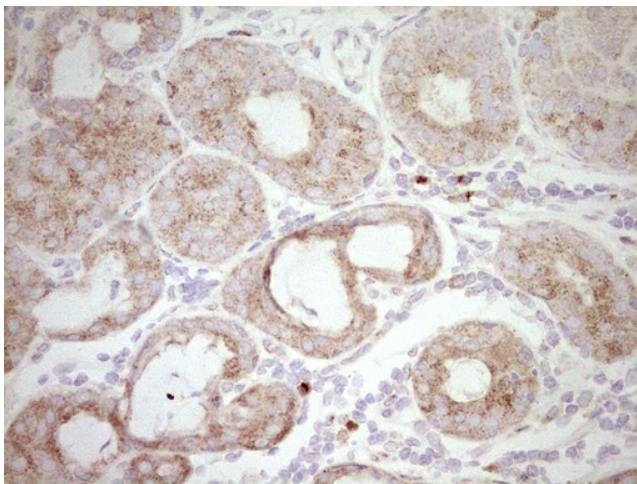
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**Synonyms:** BHLHB3; DEC2; hDEC2; SHARP1  
**Protein Families:** Transcription Factors  
**Protein Pathways:** Circadian rhythm - mammal

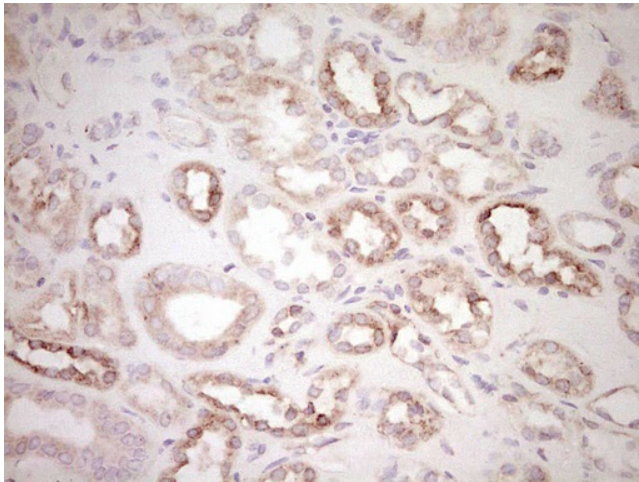
**Product images:**



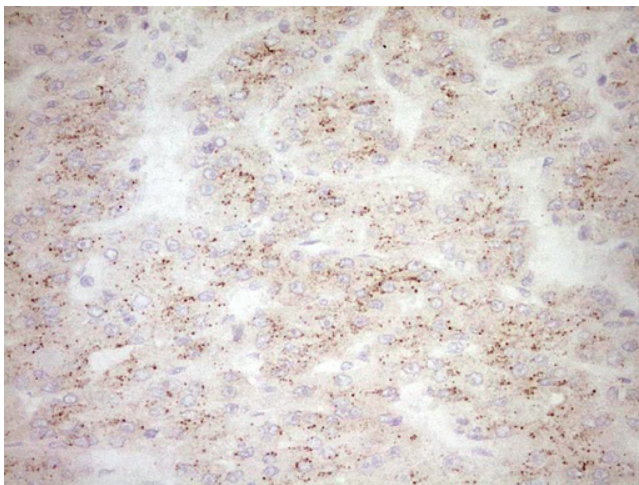
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BHLHE41 ([RC206882], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BHLHE41. Positive lysates [LY410724] (100ug) and [LC410724] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-BHLHE41 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA806407])



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-BHLHE41 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA806407])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-BHLHE41 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA806407])