

## Product datasheet

# Anti-Malignant T cell amplified sequence 1 antibody ab89839

### 1 图像

#### 概述

<b>产品名称</b>	Anti-Malignant T cell amplified sequence 1 抗体
<b>描述</b>	兔多克隆抗体 to Malignant T cell amplified sequence 1
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB
<b>种属反应性</b>	<b>与反应:</b> Human <b>预测可用于:</b> Mouse, Rat, Rabbit, Chicken, Guinea pig, Cow, Cat, Dog, Zebrafish
<b>免疫原</b>	Synthetic peptide corresponding to a region within N terminal amino acids 2-51 (FKKFDEKENV SNCIQLKTSV IKGIKNQLIE QFPGIEPWLN QIMPKKDPVK) of Human Malignant T cell amplified sequence 1 (NP_054779). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>阳性对照</b>	COLO205 cell lysate.

#### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>存储溶液</b>	Preservative: None Constituents: 2% Sucrose, PBS
<b>纯度</b>	Immunogen affinity purified
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

#### 应用

Our [Abpromise guarantee](#) covers the use of **ab89839** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab 评论	说明

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WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 21 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## 靶标

### 功能

Anti-oncogene that play a role in cell cycle regulation; decreases cell doubling time and anchorage-dependent growth; shortens the duration of G1 transit time and G1/S transition. When constitutively expressed, increases CDK4 and CDK6 kinases activity and CCND1/cyclin D1 protein level, as well as G1 cyclin/CDK complex formation. Plays a role as translation enhancer; Recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile; Up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant. Hyperactivates DNA damage signaling pathway; increased gamma-irradiation-induced phosphorylation of histone H2AX, and induces damage foci formation. Increases the overall number of chromosomal abnormalities such as larger chromosomes formation and multiples chromosomal fusions when over-expressed in gamma-irradiated cells. May play a role in promoting lymphoid tumor development: lymphoid cell lines over-expressing MCTS1 exhibit increased growth rates and display increased protection against apoptosis. May contribute to the pathogenesis and progression of breast cancer via promotion of angiogenesis through the decline of inhibitory THBS1/thrombospondin-1, and inhibition of apoptosis. Involved in the process of proteasome degradation to down-regulate Tumor suppressor p53/TP53 in breast cancer cell; Positively regulates phosphorylation of MAPK1 and MAPK3.

### 组织特异性

Ubiquitous. Over-expressed in T-cell lymphoid cell lines and in non-Hodgkin lymphoma cell lines as well as in a subset of primary large B-cell lymphomas.

### 序列相似性

Belongs to the MCTS1 family.  
Contains 1 PUA domain.

### 结构域

The PUA RNA-binding domain is critical for cap binding, but not sufficient for translation enhancer function. MCT1 N-terminal region is required to enhance translation possibly through interaction with other proteins.

### 翻译后修饰

Phosphorylation is critical for stabilization and promotion of cell proliferation.

### 细胞定位

Cytoplasm. Nuclear relocalization after DNA damage.

## 图片



90 kDa  
65 kDa  
40 kDa  
31 kDa  
22 kDa

Western blot - Anti-Malignant T cell amplified  
sequence 1 antibody (ab89839)

Anti-Malignant T cell amplified sequence 1  
antibody (ab89839) at 1 µg/ml (in 5% skim  
milk / PBS buffer) + COLO205 cell lysate at 10  
µg

#### Secondary

HRP conjugated anti-Rabbit IgG at 1/50000  
dilution

**Predicted band size:** 21 kDa

Gel concentration: 12%

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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