abcam

Product datasheet

# Anti-LYRIC/AEG1 antibody ab45338

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## 概述

| | |
|---|---|
| **产品名称** | Anti-LYRIC/AEG1抗体 |
| **描述** | **兔多克隆抗体**to LYRIC/AEG1 |
| **宿主** | Rabbit |
| **经测试应用** | **适用于:** ICC/IF, WB, IHC-P |
| **种属反应性** | **与反应:** Mouse, Rat, Human<br>**预测可用于:** Cow |
| **免疫原** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **阳性对照** | This antibody gave a positive signal in mouse and rat skeletal muscle tissue lysates, and in mouse heart tissue lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Human skin cancer. ICC/IF: HeLa and MCF7 cells |
| **常规说明** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## 性能

| | |
|---|---|
| **形式** | Liquid |
| **存放说明** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **存储溶液** | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituent: PBS<br><br>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help. |
| **纯度** | Immunogen affinity purified |

| | |
|---|---|
| **克隆** | **多克隆** |
| **同种型** | IgG |

## 应用

**The Abpromise guarantee** **Abpromise™承诺保证使用ab45338于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|---|---|---|
| **ICC/IF** | ★★☆☆☆ (1) | Use a concentration of 5 - 10 µg/ml.<br>Suitable for use in cells fixed with either 100% methanol (5mins) or 4% PFA (10mins). |
| **WB** | ★★★☆☆ (2) | Use a concentration of 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 64 kDa). |
| **IHC-P** | | Use a concentration of 5 µg/ml. |

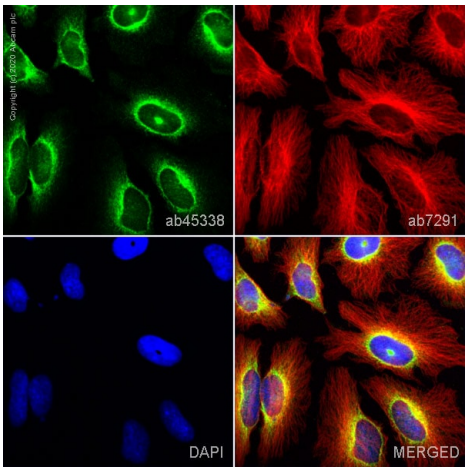
## 靶标

**功能** Downregulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance.

**组织特异性** Widely expressed with highest levels in muscle-dominating organs such as skeletal muscle, heart, tongue and small intestine and in endocrine glands such as thyroid and adrenal gland. Overexpressed in various cancers including breast, brain, prostate, melanoma and glioblastoma multiforme.

**细胞定位** Endoplasmic reticulum membrane. Nucleus membrane. Cell junction > tight junction. Nucleus > nucleolus. Cytoplasm > perinuclear region. In epithelial cells, recruited to tight junctions (TJ) during the maturation of the TJ complexes. A nucleolar staining may be due to nuclear targeting of an isoform lacking the transmembrane domain (By similarity). TNF-alpha causes translocation from the cytoplasm to the nucleus.

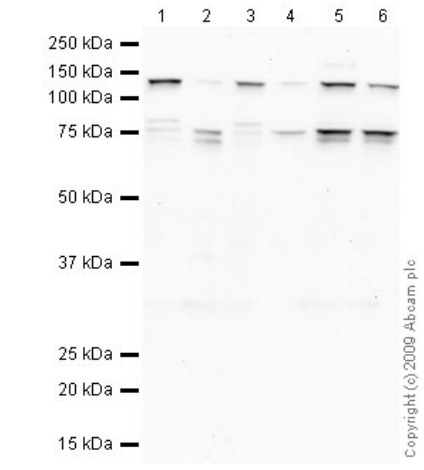
## 图片




Immunocytochemistry/ Immunofluorescence - Anti-LYRIC/AEG1 antibody (ab45338)

ab45338 staining LYRIC in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1%PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab45338 at 10µg/ml and **ab7291**, Anti-alpha Tubulin antibody [DM1A] - Loading Control, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed (shown in green) and **ab1500120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).




Western blot - Anti-LYRIC/AEG1 antibody (ab45338)

**All lanes :** Anti-LYRIC/AEG1 antibody (ab45338) at 1 µg/ml

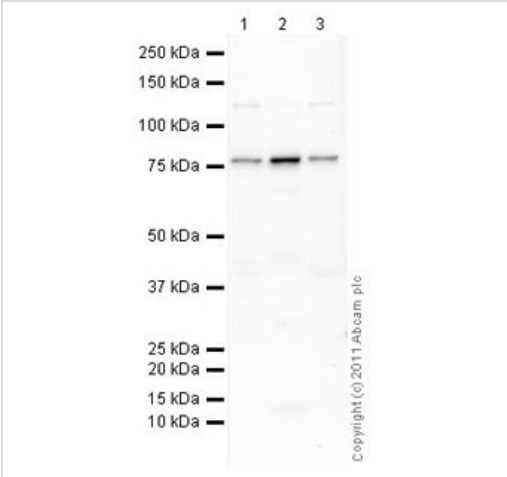
**Lane 1 :** MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
**Lane 2 :** MDA-MB-231 (Human breast adenocarcinoma cell line) Whole Cell Lysate
**Lane 3 :** MDA-MB-361 (Human breast adenocarcinoma cell line) Whole Cell Lysate
**Lane 4 :** DU145 (Human Prostate carcinoma epithelial like cell line) Whole Cell lysate
**Lane 5 :** PC-3 whole cell lysate (**ab3954**)
**Lane 6 :** U-87 MG nuclear extract lysate (**ab14903**)

Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

**Predicted band size:** 64 kDa
**Observed band size:** 75 kDa
**Additional bands at:** 130 kDa, 80 kDa (possible post-translational modification). We are unsure as to the identity of these extra bands.




Western blot - Anti-LYRIC/AEG1 antibody (ab45338)

**All lanes :** Anti-LYRIC/AEG1 antibody (ab45338) at 1 µg/ml

**Lane 1 :** Skeletal Muscle (Mouse) Tissue Lysate
**Lane 2 :** Heart (Mouse) Tissue Lysate
**Lane 3 :** Skeletal Muscle (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

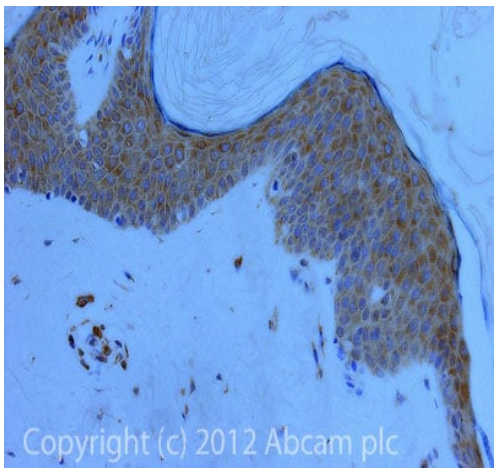
**Secondary**
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 64 kDa

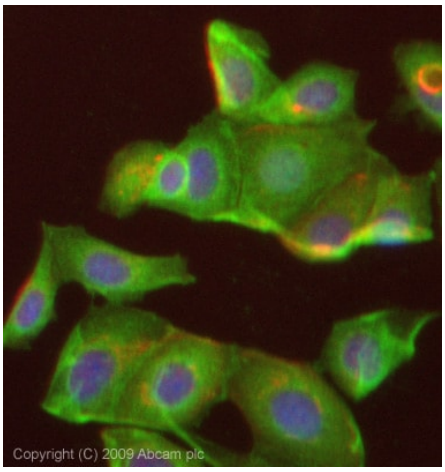
**Exposure time:** 1 minute




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYRIC/AEG1 antibody (ab45338)

IHC image of LYRIC/AEG1 staining in Human skin cancer formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab45338, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times




Immunocytochemistry/ Immunofluorescence - Anti-LYRIC/AEG1 antibody (ab45338)

ICC/IF image of ab45338 stained MCF7 cells. The cells were 4% PFA fixed (10 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab45338, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in MCF7 cells fixed in 100% methanol (10 min) cells.



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