



## Rabbit anti AEG1(C-Term) Polyclonal Antibody

Alternative Name(s): Metadherin; 3D3; AEG1; AEG-1; LYRIC; LYRIC/3D3

### Order Information

- **Description:** AEG1(C-Term)
- **Catalogue:** 630-100
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt, Bv

### **ANTIGEN PREPARATION**

A synthetic peptide derived from the c-term of human AEG1. This sequence is identical to human, mouse, rat and bovine.

### **BACKGROUND**

AEG1 (Astrocyte elevated gene 1), also called Metadherin (MTDH), or L LYsine-Rich CEACAM1 co-isolated (LYRIC), is 582 aa single transmembrane domain (TMD) protein, this protein is widely expressed and highly conserved between species. It is not a structural component for tight junctional (TJ) complexes, it is recruited during the maturation of the tight junction complex and co-localizes with tight junction proteins ZO-1 and occludin in polarized epithelial cells. This novel protein is also reported as an HIV-1 inducible gene, which is expressed ubiquitously with higher expression in tissues containing muscular actin and its expression is increased in astrocytes infected with HIV-1 or treated with gp120 or tumor necrosis factor (TNF)-alpha. AEG1 expression is elevated in subsets of breast carcinomas, malignant gliomas and melanomas. AEG1 may affect tumor progression in multiple cell lineages by augmenting expression of the transformed phenotype and/or by inducing glutamate excitotoxicity in malignant glioma. In these contexts, an HIV-1-inducible gene, AEG-1, may contribute to multiple brain abnormalities and tumor formation, by both common and distinct mechanisms.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~64 kDa of human AEG1 protein. It also reacts with human, mouse and rat origins. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 64.0
- Positive Control: Kidney Tissue

### **FOR RESEARCH USE ONLY.**

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- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

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**DATA ATTACHMENTS**



Western Blot: The cell lysate derived from Hela was immuno-blotted by Rabbit anti AEG1 (Cat#630-100) at 1:500. An immunoreactive band around 64kDa is observed.

**REFERENCES**

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