

## Product datasheet for **TA354926**

### LYRIC (MTDH) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat, Bovine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide derived from a non-phosphorylated serine surrounding the epitope - TSWESPKQI-of human AEG1. This sequence is identical to human, mouse, rat and bovine.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~64 kDa
Gene Name:	metadherin
Database Link:	<a href="#">NP_848927</a> <a href="#">Entrez Gene 67154 Mouse</a> <a href="#">Entrez Gene 170910 Rat</a> <a href="#">Entrez Gene 92140 Human</a> <a href="#">Q86UE4</a>



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**Background:**

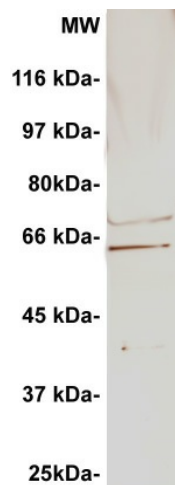
AEG1 (Astrocyte elevated gene 1), also called MTDH (Metadherin), or L Lysine-Rich CEACAM1 co-isolated (LYRIC), is 582 aa single transmembrane domain (TMD) protein. It is widely expressed and highly conserved between species. It is recruited during the maturation of the tight junction complex and co-localizes with tight junction proteins ZO-1 and occludin in polarized epithelial cells. AEG-1 is involved in several crucial aspects of tumor progression, including transformation, evasion of apoptosis, invasion, metastasis, and chemoresistance. Overexpression of AEG-1 is frequently observed in melanoma, glioma, neuroblastoma, and carcinomas of breast, prostate, liver, and esophagus and is correlated with poor clinical outcomes. AEG-1 functions as a downstream mediator of the transforming activity of oncogenic Ha-Ras and c-Myc. Furthermore, AEG-1 overexpression activates the PI3K/Akt, nuclear factor  $\kappa$ B (NF $\kappa$ B), and Wnt/ $\beta$ -catenin signaling pathways to stimulate proliferation, invasion, cell survival, and chemoresistance. The lung-homing domain of AEG-1 also mediates the adhesion of tumor cells to the vasculature of distant organs and promotes metastasis. These findings suggest that therapeutic targeting of AEG-1 may simultaneously suppress tumor growth, block metastasis, and enhance the efficacy of chemotherapeutic treatments.

**Synonyms:**

3D3; AEG-1; AEG1; LYRIC

**Protein Families:**

Transmembrane

**Product images:**

WB: The cell lysate derived from HELA cells was immuno-blotted by Rabbit anti-Non-phosphospecific AEG1 (Paired S568) at 1:500. An immunoreactive band around 64kDa is observed.