

LYRIC Polyclonal Antibody | anti-LYRIC antibody

Anti-LYRIC Antibody

CATALOG # AAA11650	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
------------------------------	--	---

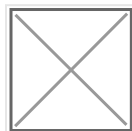
PRODUCT SYNONYMS

LYRIC; Polyclonal Antibody; Anti-LYRIC Antibody; Protein LYRIC; 3D3; 3D3/LYRIC; AEG 1; AEG-1; AEG1; Astrocyte elevated gene 1; Astrocyte elevated gene-1 protein; LYRIC/3D3; LYRIC_HUMAN; Lysine rich CEACAM1 associated protein; Lysine rich CEACAM1 co isolated protein; Lysine-rich CEACAM1 co-isolated protein; Metadherin; Metastasis adhesion protein; MTDH; metadherin; anti-LYRIC antibody

PRODUCT SPECIFICATIONS

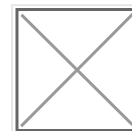
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	582
Applicable Applications for anti-LYRIC antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml
Immunogen	E Coli-derived human LYRIC recombinant protein (Position: D101-Q270). Human LYRIC shares 94% amino acid (aa) sequence identity with both mouse and rat LYRIC.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



ICC (Immunocytochemistry)

Figure 6. IHC analysis of LYRIC using anti-LYRIC antibody (AAA11650). LYRIC was detected in immunocytochemical section of SMMC-7721 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LYRIC Antibody (AAA11650) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



ICC (Immunocytochemistry)

Figure 5. IHC analysis of LYRIC using anti-LYRIC antibody (AAA11650). LYRIC was detected in immunocytochemical section of Hela cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LYRIC Antibody (AAA11650) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



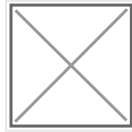
IHC (Immunohistochemistry)

Figure 4. IHC analysis of LYRIC using anti-LYRIC antibody (AAA11650).LYRIC was detected in immunocytochemical section of A549 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LYRIC Antibody (AAA11650) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



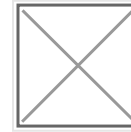
IHC (Immunohistochemistry)

Figure 3. IHC analysis of LYRIC using anti-LYRIC antibody (AAA11650).LYRIC was detected in paraffin-embedded section of Human Mammary Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LYRIC Antibody (AAA11650) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of LYRIC using anti-LYRIC antibody (AAA11650).LYRIC was detected in paraffin-embedded section of Rat Skeletal Muscle Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LYRIC Antibody (AAA11650) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of LYRIC using anti-LYRIC antibody (AAA11650).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat Skeletal Muscle Tissue Lysate,Lane 2: Mouse Skeletal Muscle Tissue Lysate,Lane 3: Rat Cardiac Muscle Tissue Lysate,Lane 4: Mouse Cardiac Muscle Tissue Lysate,Lane 5: MCF-7 Whole Cell Lysate,Lane 6: U87 Whole Cell Lysate,Lane 7: 22RV1 Whole Cell Lysate,Lane 8: PC-12 Whole Cell Lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LYRIC antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LYRIC at approximately 100KD. The expected band size for LYRIC is at 64KD.

ADDITIONAL INFORMATION

Related Product Information for anti-LYRIC antibody	Description: Rabbit IgG polyclonal antibody for Protein LYRIC(MTDH) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: MTDH (Metadherin), also known as protein LYRIC or astrocyte elevated gene-1 protein (AEG-1) is a protein that in humans is encoded by the MTDH gene. AEG-1 is involved in HIF-1alpha mediated angiogenesis. AEG-1 also interacts with SND1 and involved in RNA-induced silencing complex (RISC) and plays very important role in RISC and miRNA functions. AEG-1 induces an oncogene called Late SV40 factor (LSF/TFCP2) which is involved in thymidylate synthase (TS) induction and DNA biosynthesis synthesis. Late SV40 factor (LSF/TFCP2) enhances angiogenesis by transcriptionally up-regulating matrix metalloproteinase-9 (MMP9). AEG-1 acts as an oncogene in melanoma, malignant glioma, breast cancer and hepatocellular carcinoma. It is highly expressed in these cancers and helps in progression and development of these cancers. It is induced by c-Myc oncogene and plays very important role in anchorage independent growth of cancer cells.
References	1. Brown DM, Ruoslahti E (April 2004). "Metadherin, a cell surface protein in breast tumors that mediates lung metastasis". Cancer Cell 5 (4): 365-74. 2. Hu G, Chong RA, Yang Q, Wei Y, Blanco MA, Li F, Reiss M, Au JL, Haffty BG, Kang Y (January 2009). "MTDH activation by 8q22 genomic gain promotes chemoresistance and metastasis of poor-prognosis breast cancer". Cancer Cell 15 (1): 9-20. 3. Yoo BK, Emdad L, Lee SG, Su ZZ, Santhekadur P, Chen D, Gredler R, Fisher PB, Sarkar D (January 2011)."Astrocyte elevated gene-1 (AEG-1): A multifunctional regulator of normal and abnormal physiology".Pharmacol Ther 130 (1): 1-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223555917
NCBI GeneID	92140
NCBI Accession #	NP_848927.2

NCBI GenBank Nucleotide #	NM_178812.3
UniProt Accession #	Q86UE4 ; Q05DH2 ; Q52QU9 ; Q6PK07 ; Q8TCX3
Molecular Weight	63,837 Da
NCBI Official Full Name	protein LYRIC
NCBI Official Synonym Full Names	metadherin
NCBI Official Symbol	MTDH
NCBI Official Synonym Symbols	3D3; AEG1; AEG-1; LYRIC; LYRIC/3D3
NCBI Protein Information	protein LYRIC
UniProt Protein Name	Protein LYRIC
UniProt Gene Name	MTDH
UniProt Synonym Gene Names	AEG1; LYRIC; AEG-1
UniProt Entry Name	LYRIC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/lyric-antibody-western-blot-immunohistochemistry-elisa/11650>