SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-LYRIC antibody

Catalog Number: SL2231R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	LYRIC
Immunogen:	KLH conjugated synthetic peptide derived from human AEG-1: 131-230/582
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat, Dog, Pig, Cow)
Predicted MW.:	64kDa
Subcellular Location:	The nucleus cytoplasmic The cell membrane
Background:	LYRIC is a type II membrane protein, the precise role of which has yet to be defined. It is expressed in breast and prostate carcinoma and is a potential mediator of lung metastasis. It has also been found in mouse Purkinje neurons and cerebellum. In epithelial cells it is recruited to tight junctions (TJ) during the maturation of the TJ complexes. LYRIC co-localizes with beta-catenin in normal and tumour tissues. **Function:** 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

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	by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance. **Subunit:** Interacts with BCIPP, CREBBP/CBP and RELA/p65. **Subcellular Location:** Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Cell junction, tight junction. Nucleus, nucleolus . Cytoplasm, perinuclear region. Note=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. TNF-alpha causes translocation from the cytoplasm to the nucleus. **Tissue Specificity:** 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. **Database links:** **Entrez Gene:** 509788 Cow **Entrez Gene:** 92140 Human **Entrez Gene:** 67154 Mouse **Entrez Gene:** 170910 Rat Omim: 610323 Human **SwissProt:** Q86UE4 Human **SwissProt:** Q80WJ7 Mouse **SwissProt:** Q9Z1W6 Rat **Unigene:** 377155 Human **Unigene:** 130883 Mouse **Unigene:** 6864 Rat

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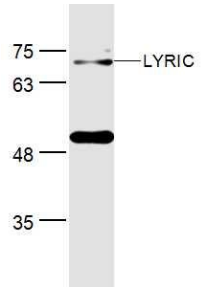
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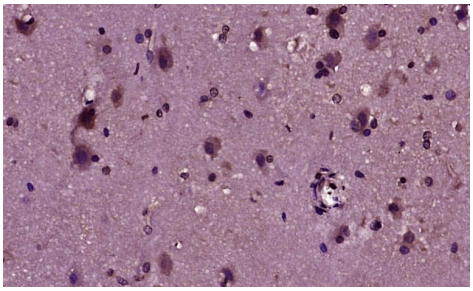
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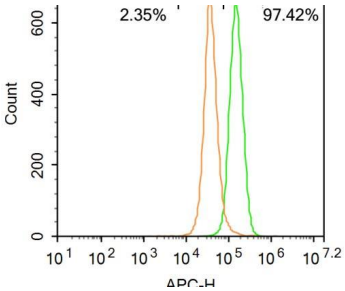
[VALIDATION IMAGES]



Sample:
A549(Human) Lysate at 40 ug
Primary: Anti-LYRIC (SL2231R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kD
Observed band size: 64 kD



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LYRIC) Polyclonal Antibody, Unconjugated (SL2231R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:A431.
Primary Antibody (green line): Rabbit Anti-LYRIC antibody (SL2231R)
Dilution: 1μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF647
Dilution: 1μg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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