

## Anti-RPSA Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog)
Molecular Weight:	Theoretical: 32.7/67 kDa. Actual: 32.7 kDa.
Purification:	Protein A purified

## Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-LAMR1 (CT) Polyclonal Antibody, Unconjugated (TMAB-12383) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

2. Blank control: RSC96 (blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice.

Verified Activity: Isotype Control Antibody: Rabbit IgG (orange);  
Secondary Antibody: Goat anti-rabbit IgG-PE (white blue),  
Dilution: 1: 200 in 1 X PBS containing 0.5% BSA;  
Primary Antibody Dilution: 0.2 µg in 100 µL 1X PBS containing 0.5% BSA (green).

3. Sample: NIH/3T3 (Mouse) Cell Lysate at 30 µg  
Primary: Anti-LAMR1 (TMAB-12383) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 32.7/67 kD  
Observed band size: 32.7 kD

Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

## Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human LAMR1
Antigen Species:	Human
Gene ID:	3921
Uniprot ID:	P08865

## Research Background

Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion,

differentiation, migration, signaling, neurite outgrowth and metastasis. Many of the effects of laminin are mediated through interactions with cell surface receptors. These receptors include members of the integrin family, as well as non-integrin laminin-binding proteins. This gene encodes a high-affinity, non-integrin family, laminin receptor 1. This receptor has been variously called 67 kD laminin receptor, 37 kD laminin receptor precursor (37LRP) and p40 ribosome-associated protein. The amino acid sequence of laminin receptor 1 is highly conserved through evolution, suggesting a key biological function. It has been observed that the level of the laminin receptor transcript is higher in colon carcinoma tissue and lung cancer cell line than their normal counterparts. Also, there is a correlation between the upregulation of this polypeptide in cancer cells and their invasive and metastatic phenotype. Multiple copies of this gene exist, however, most of them are pseudogenes thought to have arisen from retropositional events. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.

[provided by RefSeq, Jul 2008]

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481