Data Sheet (Cat.No.TMAC-00037)

Anti-RPSA Antibody (6W769)

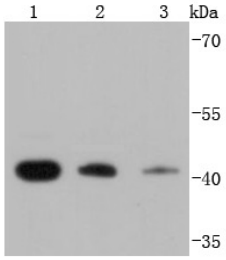
Product Details

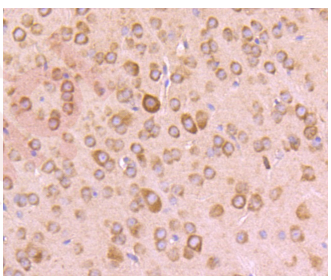
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 40 kDa.
Clone:	6W769
Purification:	ProA affinity purified

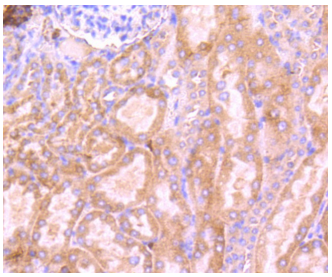
Applications

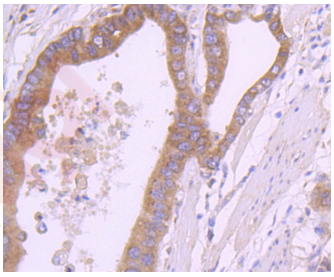
Verified Activity:

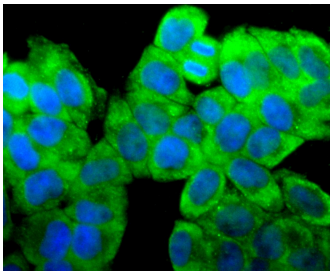
1. Western blot analysis of RPSA on different lysates using anti-RPSA antibody at 1/1,000 dilution. Positive control: Lane 1: K562, Lane 2: HepG2, Lane 3: A431.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-RPSA antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-RPSA antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human gastric carcinoma tissue using anti-RPSA antibody. Counter stained with hematoxylin.
5. ICC staining RPSA in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining RPSA in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining RPSA in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining RPSA in RH-35 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. Flow cytometric analysis of MCF-7 cells with RPSA antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

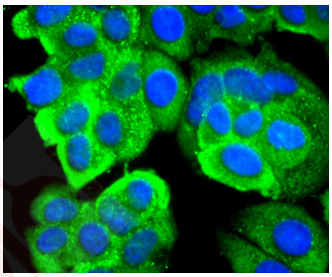


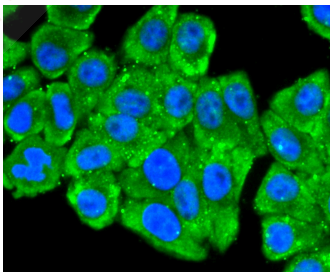


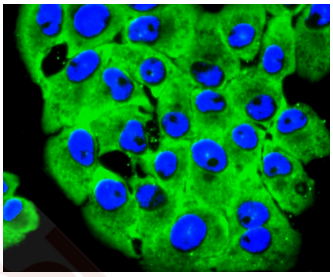


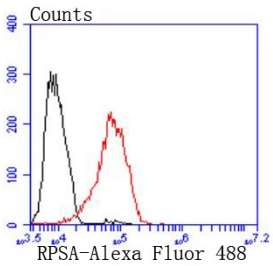












Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:50-100

Properties

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

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P08865

Synonyms: Colon carcinoma laminin-binding protein;37/67 kDa laminin receptor (LRP/LR);NEM/1CHD4; 40S ribosomal protein SA;LAMBR;Laminin receptor 1 (LamR);Multidrug resistance-associated protein MGr1-Ag;37 kDa laminin receptor precursor (37LRP);Laminin-binding protein precursor p40 (LBP/p40);67 kDa laminin receptor (67LR);LAMR1;RPSA;Small ribosomal subunit protein uS2

Research Background

Laminin receptor (Laminin-R) has a heterodimeric structure similar to that of receptors for other extracellular matrix proteins such as Fibronectin and Vitronectin. Incorporation of Laminin-R into lysosomal membranes makes it possible for lysosomes to attach to surfaces coated with Laminin. This and other properties identify Laminin-R as a member of the integrin family of cell adhesion receptors. The Laminin-R precursor is a polypeptide whose expression is consistently upregulated in aggressive carcinoma. The precursor, which is also identified as p40 ribosome-associated protein, appears to be a multifunctional protein involved in the translational machinery. Laminin-R (also known as colon carcinoma laminin-binding protein) and is found at nine-fold higher levels in colon carcinoma than in adjacent normal colonic epithelium. Additionally, the level of the Laminin-R is higher in the lung cancer cell line than in the lung cell line.

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