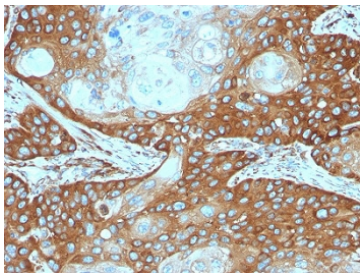
RPSA Antibody / 40S Ribosomal protein SA / Laminin Receptor 1 [clone RPSA/2699] (V7301)

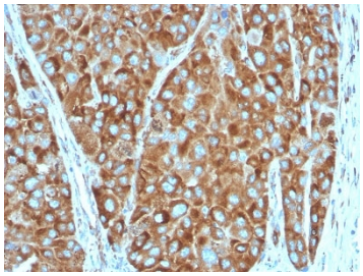
Catalog No.	Formulation	Size
V7301-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7301-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7301SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7301IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

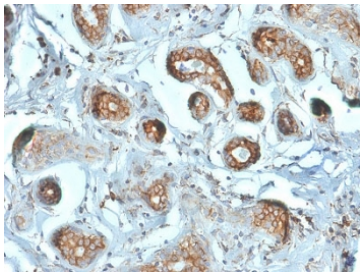
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	RPSA/2699
Purity	Protein G affinity chromatography
UniProt	P08865
Localization	Cell surface, cytoplasmic, nuclear
Applications	Flow Cytometry : 1-2ug/ml Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This RPSA antibody is available for research use only.



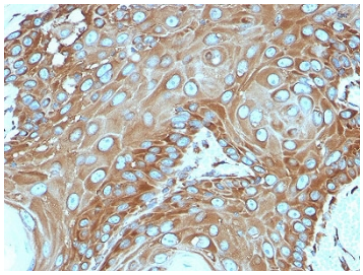
IHC testing of FFPE human cervical carcinoma stained with RPSA antibody. Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



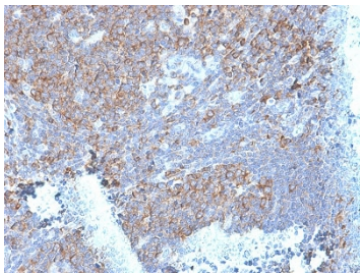
IHC testing of FFPE human colon carcinoma stained with RPSA antibody. Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



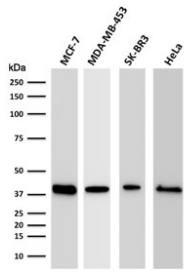
IHC testing of FFPE human breast carcinoma stained with RPSA antibody. Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



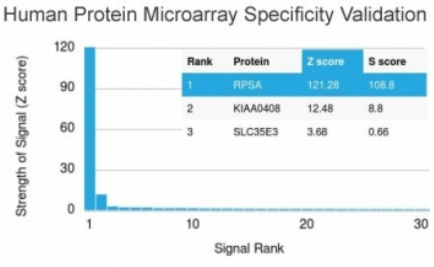
IHC testing of FFPE human basal cell carcinoma stained with RPSA antibody. Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



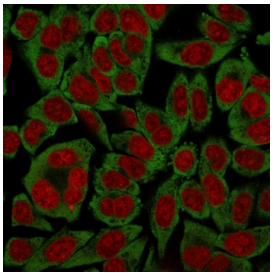
IHC testing of FFPE human tonsil stained with RPSA antibody. Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



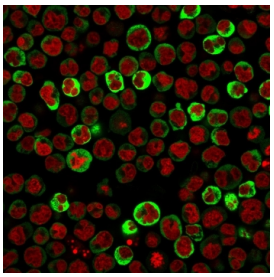
Western blot testing of human MCF-7, MDA-MB-453, SK-BR3, and HeLa cell lysate with RPSA antibody. Routinely observed molecular weight: 37-40 kDa and 67 kDa.



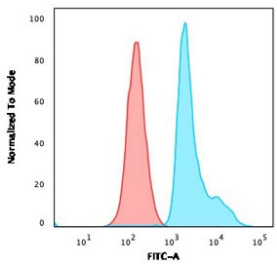
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using RPSA antibody. These results demonstrate the foremost specificity of the RPSA/2699 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Immunofluorescent staining of human HeLa cells with RPSA antibody (green, clone RPSA/2699) and Reddot nuclear stain (red).



Immunofluorescent staining of paraformaldehyde-Raji cells with RPSA antibody (green, clone RPSA/2699) and Reddot nuclear stain (red).



FACS staining of paraformaldehyde-Raji cells with RPSA antibody (clone RPSA/2699); Red=isotype control, Blue= RPSA antibody.

Description

Laminins, a family of extracellular matrix glycoproteins, are the major non-collagenous 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. Reportedly, level of 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.

Application Notes

Optimal dilution of the RPSA antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full length protein was used as the immunogen for the RPSA antibody.

Storage

Store the RPSA antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).