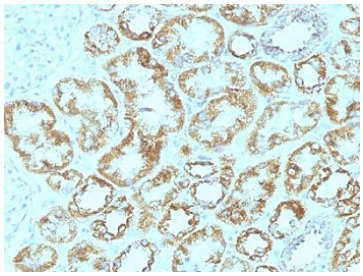
Laminin gamma 1 Antibody [clone SPM193] (V2683)

Catalog No.	Formulation	Size
V2683-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2683-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2683SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2683IHC-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, Mouse
Format	Purified
Clonality	Monoclonal (rat origin)
Isotype	Rat IgG2a, kappa
Clone Name	SPM193
Purity	Protein G affinity chromatography
UniProt	P11047
Localization	Basement membrane, secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Laminin gamma 1 antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with Laminin gamma 1 antibody (clone SPM193).

Description

Laminins are large hetero-trimeric, non-collagenous glycoproteins composed of alpha, beta, and gamma chains. This mAb reacts with laminin B2/1 chain of ~210kDa and does not cross-react with other basement membrane components or fibronectin. Epithelial sheets in vivo are separated from the mesenchymal elements of the stroma by a thin layer of a specialized type of extracellular matrix termed the basement membrane (BM). This structure consists of individual components, some of which are ubiquitous in BMs and some are not. The ubiquitous ones comprise laminin (LN), entactin/nidogen (EN), collagen type IV (CIV), and large heparan sulfate proteoglycan (HSPG), which interact specifically with each other to form a continuous and regular BM. Alterations of BM integrity, from local discontinuities up to complete loss, are described in many types of human and animal epithelial neoplasms. This mAb stains uniformly all human and murine basement membranes.

Application Notes

Optimal dilution of the Laminin gamma 1 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min
2. 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

A murine EHS laminin preparation was used as the immunogen for the Laminin gamma 1 antibody.

Storage

Store the Laminin gamma 1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).