

## Laminin 511 antibody [12D]

Cat. No. GTX17688

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Applications	WB, IHC-Fr, IP, ELISA, Purification
Reactivity	Human

References ( 1 )

Package

100 µl

## PRODUCT

## Summary

Laminins, which consist of three subunits called alpha, beta and gamma chains, are major cell-adhesive components of extracellular matrix, especially basement membranes (BMs). The laminin family is constituted of over 15 isoforms, and each member is expressed in a tissue-specific manner and plays a differential role in each tissue. Laminin-511 (Lm511) (formerly laminin-10), which consists of alpha 5, beta 1 and gamma 1 chains, appears at an early stage of development and is most widely expressed in adult tissues, mainly basement membranes of various epithelial tissues and vasculatures. Recently, laminin-511 is often used as a culture substrate for ES and iPS cells. This antibody specifically interacts with the trimeric structure of laminin-511 isoform but does not react with any of the alpha 5, beta 1 and gamma 1 chains in the reducing conditions. Furthermore, it has been validated that clone 12D does not react with any of laminins-111, -211, -332, -3B32, -411 and -521. Unlike conventional anti- alpha 5 antibodies, clone 12D distinguishes laminin-511 from laminin-521. This is an important tool to evaluate specific distribution and physiological functions of laminin-511. In human cancers, clone 12D detects small vascular vessels with high sensitivity and hence useful for evaluating tumor angiogenesis.

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:1000
IHC-Fr	Assay dependent
IP	Assay dependent
ELISA	Assay dependent
Purification	Assay dependent

Not tested in other applications.

## Product Note

This antibody specifically interacts with the trimeric structure of laminin-511 isoform but does not react with any of the alpha 5, beta 1 and gamma 1 chains in the reducing conditions. Furthermore, it has been validated that clone 12D does not react with any of laminins-111, -211, -332, -3B32, -411 and -521. Unlike conventional anti- alpha 5 antibodies, clone 12D distinguishes laminin-511 from laminin-521.

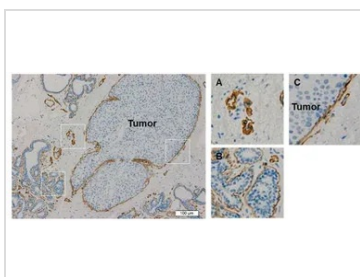
## Properties

Form	Liquid
Buffer	Ascites



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<b>Preservative</b>	No preservatives
<b>Storage</b>	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
<b>Immunogen</b>	Human placental laminin.
<b>Purification</b>	Unpurified
<b>Conjugation</b>	Unconjugated
<b>Note</b>	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

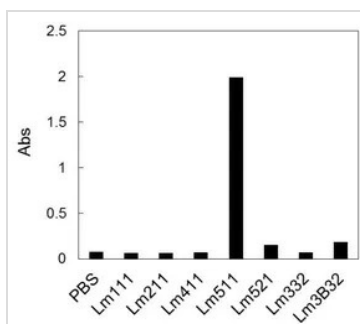
**DATA IMAGES**

**GTX17688 IHC-Fr Image**

IHC-Fr analysis of non-invasive breast carcinoma tissue using GTX17688 Laminin 511 antibody [12D].

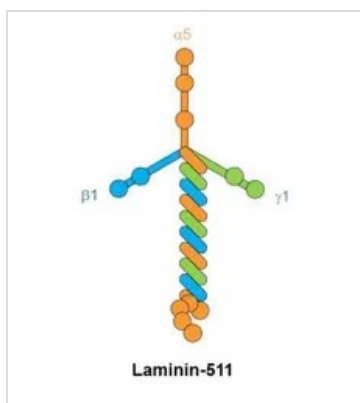
Image A : Vascular basement membrane

Image B : Mammary gland basement membrane

Image C : Basement membrane-like structures surrounding tumor cells


**GTX17688 ELISA Image**

ELISA analysis of seven recombinant human laminins using GTX17688 Laminin 511 antibody [12D].


**GTX17688 Image**

Protein structure of laminin-511



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