Laminin alpha 3B antibody [F7]

Cat. No. GTX17684

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	WB, IHC-P, IHC-Fr, IP, ELISA, Purification
Reactivity	Human

References (3)
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. In the case of laminin alpha 3 chain, there are two splicing variants, the truncated form alpha 3A and the full-length alpha 3B. Laminin-3B32 (Lm3B32) (formerly, laminin-5B) is composed of alpha 3B, beta 3 and gamma 2 chains and less widely expressed than laminin-3A32. Although laminin-3B32 shows higher cell adhesion activity than laminin-3A32 in vitro, differences of biological functions between two laminins remain to be clarified. Recent studies identified laminin-3B11 (Lm3B11) as a new alpha 3B-type laminin. Laminin-3B11 is localized in vascular basement membranes in normal tissues, but this expression is down-regulated in cancer tissues.Laminin-3B11 stimulates microvascular endothelial cells to extend lamelliopodial protrusions. This antibody (clone F7) detects laiminin-3B32 in the basement membranes of normal epithelial tissues and of relatively benign or differentiated carcinomas and laminin-3B11 in normal vascular basement membranes. This antibody is a powerful tool to detect laminin alpha 3B isoform and investigate its fundamental functions in epithelial and vascular basement membranes.

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:1000-1:10000
IHC-P	Assay dependent
IHC-Fr	Assay dependent
IP	Assay dependent
ELISA	Assay dependent
Purification	Assay dependent

Note : The reactivity on reducing conditions of western blotting is much weaker than on non-reducing conditions.

Not tested in other applications.

Product Note This antibody is specific for alpha 3B chain

Properties

Form Liquid

For full product information, images and publications, please visit our website.

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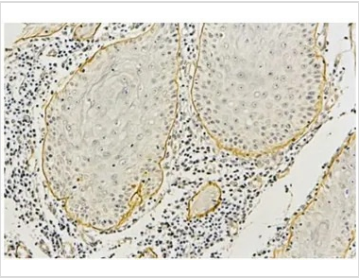
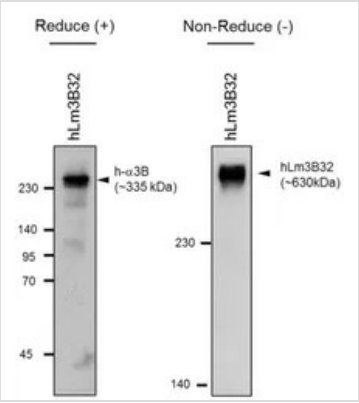
Buffer	Ascites
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Immunogen	Recombinant human laminin-alpha 3B N-term ~190 kDa fragment
Purification	Unpurified
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DATA IMAGES



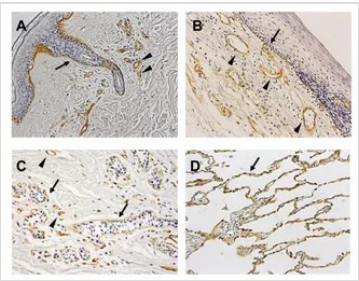
GTX17684 IHC-P Image

IHC-P analysis of skin cancer tissue using GTX17684 Laminin alpha 3B antibody [F7].



GTX17684 WB Image

WB analysis of recombinant human intact laminin-3B32 (Lm3B32 , containing alpha 3B, Beta 3 and gamma 2 chains) using GTX17684 Laminin alpha 3B antibody [F7].
Dilution : 1:10000
Reduced condition : 7% gel
Non-reduced condition : 5% gel



GTX17684 IHC-P Image

IHC-P analysis of various tissue samples using GTX17684 Laminin alpha 3B antibody [F7] (Black arrows : epithelial basement membranes ; Arrow heads : vascular basement membrane).
Figure A : Normal skin tissue (paraffin slice)
Figure B : Normal esophagus tissue (paraffin slice)
Figure C : Normal mammary gland (paraffin slice)
Figure D : Normal lung tissue (paraffin slice)

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