

## Integrin alpha 11 monoclonal antibody

Catalog: MB67244

Host: Mouse

Reactivity: Human

### BackGround:

Integrin  $\alpha 11$ , also known as type I collagen receptor, is a single-pass type I transmembrane protein that mediates cell-matrix adhesion and is part of the family of integrins that play a pivotal role in regulation processes of cell proliferation, differentiation, migration, tumor invasion, and metastasis. Integrin  $\alpha 11$  is highly expressed in embryonic fibroblasts and myofibroblasts and to varying degrees in the cytoplasm of most human tissues. In non-small cell lung cancers, integrin  $\alpha 11$  overexpression correlates with tumorigenicity and formation of secondary metastatic lesions by increasing the migration and invasion capacity. TGF $\beta$  activation of integrin  $\alpha 11$  results in significant up-regulation and overexpression by cancer associated fibroblasts in the tumor stroma; therefore, it has been used as a prognostic marker in certain cancers. As a receptor for type I collagen, which is found in fibrotic tissue of the liver, lung, and kidney, integrin  $\alpha 11$  colocalizes with  $\alpha$ -smooth muscle actin. Type I collagen is the most abundant form in the body, indicating a role for targeting integrin  $\alpha 11$  in the therapeutic intervention of fibrotic disease.

### Product:

Mouse IgG2b kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 160 kDa

### Swiss-Prot:

Q9UKX5

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

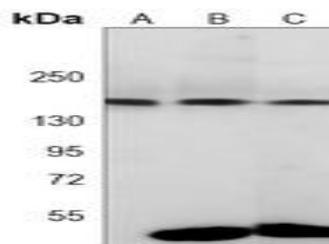
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of Integrin alpha 11 protein.

### DATA:



Western blot analysis of Integrin alpha 11 expression in Hela (A), A549 (B), human uterus (C) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151