

PRODUCT DATA SHEET

Bioworld Technology,Inc.

Collagen 1 alpha 1 Rabbit monoclonal antibody

Catalog: MB66429 Host: Rabbit Reactivity: Human

BackGround:

Type 1 collagen is the most abundant collagen in many human tissues, including bone, skin, and tendons. It is a trimeric complex comprised of two molecules of COL1A1 (alpha-1 type 1 collagen) and one molecule of COL1A2 (alpha-2 type 1 collagen). The expression levels of COL1A1 are regulated by multiple mechanisms, including mRNA stability, translation, and posttranslational modification. Overexpression of COL1A1 has been positively associated with tissue fibrosis disorders, including systemic sclerosis, while loss-of-function mutations in the COL1A1 gene are a major causative factor for osteogenesis imperfecta (brittle bone disease). Notably, COL1A1 expression levels have also been associated with tumor development in gastric, lung, thyroid, and breast cancers. Research studies suggest that upregulation of COL1A1 can generate a modified extracellular matrix environment that promotes cancer cell survival, proliferation, metastasis, and invasion.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 160 kDa

Swiss-Prot:

P02452

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

Storage&Stability:

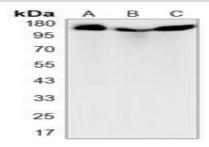
Store at $4 \,\mathrm{C}$ short term. Aliquot and store at $-20 \,\mathrm{C}$ long

term. Avoid freeze-thaw cycles.

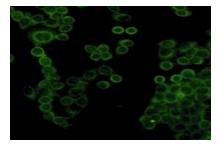
Specificity:

Recognizes endogenous levels of Collagen 1 alpha 1 protein.

DATA:



Western blot analysis of Collagen 1 alpha 1 expression in A549 (A), HL60 (B), U2OS (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: <u>info@bioworlde.com</u>

Tel: 6123263284 Fax: 6122933841 Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046,

P. R. China.

Email: <u>info@biogot.com</u>
Tel: 0086-025-68037686
Fax: 0086-025-68035151