

## **MONOCLONAL ANTIBODY**

For research use only. Not for clinical diagnosis

Catalog No. PRPG-CO12-M01

Version#: 2-121019

## Anti- Collagen type XII (378D5)

## **BACKGROUND**

Type XII collagen is a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen subfamily curently composed of 9 members (collagen types VII, IX, XII, XIV, XVI, XIX, XX, and XXI). Type XII collagen is a homotrimer composed of three ?1(XII) chains with an approximate Mr of 220 kDa. This collagen was originally found in prevalent association with type I collagen in tendons, ligaments, perichondrium, and periosteum and all dense connective tissues, but more recent studies also document association of the collagen with basement membranes. The type XII-type I collagen connection is thought to modify the interactions between collagen type I fibrils and the surrounding matrix such as to create specific macromolecular configuration of the ECM. Alternatively spliced transcript variants encoding different isoforms of the collagen have been identified. Rotary shadowing/TEM analyses shows a structure with a thin 75-nm tail, which is frequently kinked, attached through a central globule to three finger-like projections, each 60 nm long.

Product type Primary antibodies

**Immunogen** Purified laminin-collagen complexes from bovine kidney

Rased in Mouse
Myeloma Clone number 378D5
Isotype IgG1
Host -

Source Hybridoma cell culture

Purification - Liquid

Storage buffer Supernatant supplemented with 0.05% NaN3

ConcentrationNDVolume2 mLLabelUnlabeledSpecificityCollagen type XII

Cross reactivity Human, Bovine, Mouse, Chicken

Storage Storage Store at 4°C for short-term storage and -20°C for prolonged storage

Aliquot to avoid cycles of freeze / thaw.

## Application notes

Recommended dilutions

WB, IP, IHC, ELISA

Western blotting: 1/10 – 1/50

-220 kDa SDS-PAGE under reducing conditions >600 kDa under non-reducing conditions

• Immunoprecipitation: 1/5 - 1/10

Immunohistochemistry: 1/25 - 1/100 (on frozen tissue sections)

MAb 378D5 stains connective tissue ECMs of a variety of organs, including kidney, spleen, lung, placenta, skin and liver.

ELISA: 1/10 - 1/250

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

References

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