



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Cat No. PRPG-CO12-M01

**Anti-Collagen type XII
(378D5)**

BACKGROUND

Type XII collagen is a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen subfamily currently composed of 9 members (collagen types VII, IX, XII, XIV, XVI, XIX, XX, and XXI). Type XII collagen is a homotrimer composed of three alpha-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
Host	Mouse
Source	Hybridoma cell culture
Form	Liquid Supernatant with 0.05% NaN ₃ as a preservative.
Volume	2ML
Specificity	Collagen type XII
Antigen	Purified laminin-collagen complexes from bovine kidney
Isotype	IgG1
Clone	378D5

Application notes	<p>Recommended use: WB, IP, IHC, ELISA</p> <p>Recommended dilutions</p> <p>Western blotting : 1/10 to 1/50 ~220 kDa SDS-PAGE under reducing conditions; >600 kDa under non-reducing conditions</p> <p>Immunoprecipitation : 1/5 – 1/10</p> <p>Immunohistochemistry : 1/25 to 1/100 (on frozen tissue sections)</p> <p>ELISA : 1/10 – 1/250</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p> <p>Staining Pattern</p> <p>mAb 378D5 stains connective tissue ECMs of a variety of organs, including kidney, spleen, lung, placenta, skin and liver.</p>
Cross reactivity	Human, Bovine, Avian (WB, IHC)
Storage	Store at 4°C (-20° C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.

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