Tenascin-C is an extracellular matrix (ECM) glycoprotein that is composed of 210-400 kDa subunits consisting of four domains. One subunit has a TA domain at the N-terminal end, then an epidermal growth factor-like sequence domain (EGF-like domain), a fibronectin type III (FN III) repeat domain, and a fibrinogen-like domain at the C-terminal end. There is an alternatively spliced domain in the FN III domain, and it generates some types of variants of Tenascin-C.

The subunits form a trimer by twisting at the N-terminal coiled domain and form a hexamer by a disulfide bond, in tissue.
Tenascin-C

27751 Human Tenascin-C Large (FNIII-C) Assay Kit – IBL
27767 Tenascin-C Large (FNIII-B) Assay Kit - IBL

Two assay kits for measuring Tenascin-C are available. Each assay kit specifically detects FN III-B or FN III-C domain in FN III repeat and measures Tenascin-C high molecular weight variant (called as “Large”) including the subunit in which FN III-B or FN III-C domain respectively.

While low molecular weight variants of Tenascin-C are present in normal tissue, it is said that high molecular variants of Tenascin-C is expressed in various diseased tissue including cancers.

10377 Anti-Human Tenascin-C (EGF Like Domain) (4F10TT)
Mouse IgG MoAb

This monoclonal antibody specifically recognizes EGF-like domain of Tenascin-C and it detects in all Tenascin-C isoforms and cross-react with mouse, rat, chicken and rabbit.

10335 Anti-Human Tenascin-C (Domain B) (4C8MS)
Mouse IgG MoAb

This monoclonal antibody specifically recognizes domain B on FN III repeat of Tenascin-C and is useful for the study of organogenesis, tumor, cell injury cased by various types of stress, would healing, regeneration and fibrosis. It cross-reacts with mouse and rat.

References