

Modified Sirius Red stain solution (for collagen fiber)

Collagen fiber is the most widely distributed and abundant fiber in connective tissue, and is widely distributed in various organs. Type I collagen fibers are mainly found in bones, skin, and tendons; Type II collagen fibers are mainly found in cartilage collagen; Type III collagen fibers are mainly found in embryonic tissues, adult blood vessels, and the gastrointestinal tract; and Type IV collagen fibers are mainly found in the basement membrane. Sirius red and its contrast dye are both strong acid dyes, which are easily combined with the alkaline groups in collagen molecules and adsorb firmly. Under polarized light microscopy, collagen fibers have the property of positive uniaxial birefringence light. When combined with Sirius red composite stain solution, birefringence can be enhanced, and resolution can be improved, thereby distinguishing the two types of collagen fibers.

Sirius Red Stain (for collagen fiber Staining) is mainly used to study abnormal changes in collagen fibers in various tissue lesions. Under ordinary optical microscopes, collagen fibers in tissues such as heart and blood vessels are dyed red, which is helpful for the classification and grading of various fibrotic lesions under polarized light microscopes.

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| Catalog No. | 261051 |
| Size | 100mL |
| Product Category | Histochemical Stain |
| Storage/Stability | Ambient/1 year |
| Shipping | Ambient |