

Product Name

Monoclonal Mouse
Anti-Citrullinated Fibrinogen peptide Immunoglobulin, clone 4.19

**CAT No.**

13.103-100

Size

100 µg

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Intended use

This product is for research use only. NOT for use in diagnostic or therapeutic procedures.

A license from ModiQuest Research is required for use outside the research field.

This product is intended for use in ELISA.

Reagent provided

The antibody is supplied in PBS, pH 7.2
Antibody concentration: 0.5 mg/ml

Isotype

IgG1

Immunogen

Deiminated murine fibrinogen peptide.

Specificity

Specificity has been tested in ELISA.

Purity

Protein A purified.

Precautions

1. For professional users.
2. As with any product derived from biological sources, proper handling procedures should be used.
3. The product may be used in different techniques and in combination with different sample types and materials, therefore each individual laboratory should validate the test system applied.

Storage instructions

Store at 2-8°C.

For prolonged storage add sodium azide to 0.05%

Dilution guidelines

ELISA: 1:(2000 x F) – 1:(4000 x F).

Other applications: since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

For the value of the multiplication factor F, see label on vial.

Unless the stability in the actual test system has been established, it is recommended to dilute the product immediately before use.

Relevance

Fibrinogen is a protein produced by the liver which helps stop bleeding by helping blood clots to form.

Fibrinogen gets deiminated (conversion from arginin to citrullin) by Peptidyl Arginine Deiminase (PAD) in inflamed joints in patients that develop rheumatoid arthritis.

Citrulline, while being an amino acid, is not built into proteins during protein synthesis, as it is not coded for by DNA, yet several proteins are known to contain citrulline. Proteins that normally contain citrulline residues include myelin basic protein (MBP), filaggrin, and several histone proteins, while other proteins, like fibrin and vimentin can get deiminated during cell death and tissue inflammation.

Patients with rheumatoid arthritis often (at least 80% of them) develop an immune response against proteins containing citrulline. Although the origin of this immune response is not known, detection of antibodies reactive with citrulline containing proteins or peptides is now becoming an important help in the diagnosis of rheumatoid arthritis.