

**Product Name**

Monoclonal Human  
Anti- Citrullinated Fibrinogen Immunoglobulin, clone  
1F11

**CAT No.**

MQR 2.101-100

**LOT No.**

14107

**Quantity**

100µg

Edition: June 19, 2014

**Intended use**

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

**A license from ImmunoPrecise Antibodies is required for use outside the research field.**

This product is tested for use in enzyme-linked immunosorbent assay (ELISA), immunoblotting (IB), immunoprecipitation (IP) or immunohistochemistry (IHC).

**Reagent provided**

The antibody has been lyophilized in a 10 mM ammonium bicarbonate buffer.

**Isotype**

Human IgG1, λ

**Specificity**

Specificity has been tested in immunoblotting (figure 1) and ELISA. Additional tests for cross reactivity have not yet been performed.

**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 applied test system.

**Preparation of the antibody**

- Recommended antibody concentration: 0.5 mg/ml
- Recommended solvent; PBS or 100mM Tris-HCl, pH 7.0
- Additional sodium azide ( up to 0.05%) is recommended for long term storage.
- For a 0.5 mg/ml antibody concentration, dissolve in 200 µl buffer.

**NOTE:** Be careful opening the vial since the antibody resides in a vacuum.

**Storage instructions**

For long term storage keep lyophilized batch at -20°C  
After dissolving store at 2-8°C. For prolonged storage add sodium azide to 0.05%.



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**Dilution guidelines**

ELISA: 1:200 – 1000.

Immunoblotting: 1:200 – 1000.

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

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

**Relevance**

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. These citrulline residues are generated by a family of enzymes called peptidylarginine deiminases (PADs), which convert arginine into citrulline in a process called citrullination or deimination. 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 citrullinated 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.

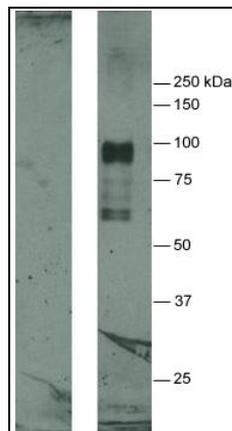


Figure 1: Specificity of Anti-Citrullinated Fibrinogen Immunoglobulin, clone 1F11, determined by Immunoblot analysis. Blot contains human fibrinogen (Sigma; cat no F4883) in the left lane and rabbit PAD2 (sigma; cat no P4874) deiminated human fibrinogen in the right lane. Incubated with antibody fraction (0.5 mg/ml) 1000X diluted in PBS containing 0,05% tween-20 and 5% non fat dry milk.

**References**

1. Venrooij et al. Autoantibodies to citrullinated antigens in (early) rheumatoid arthritis. *Autoimmun Rev.* 2006 Nov;6(1):37-41. Epub 2006 Apr 19.