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Product datasheet for AM31995PU-N

Fibrinogen (citrullinated) Mouse Monoclonal Antibody [Clone ID: 3F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F2
Applications:	ELISA, WB
Recommended Dilution:	**ELISA.** **Immunoblotting.**
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Deiminated murine fibrinogen peptide
Specificity:	Specificity has been tested in **Immunoblotting** (Figure 1) and **ELISA.** Additional tests for cross reactivity have not yet been performed.
Formulation:	10mM Ammonium Bicarbonate buffer State: Purified State: Lyophilized purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C . Add 0.05% Sodium Azide for longer storage.
Stability:	Shelf life: one year from despatch.

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Background: 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 Deïminase (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. 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.

Synonyms: FGA, FGB, FGG

Note: ***Recommended Solvent:*** 100 mM PBS or Tris-HCl, pH 7.0–8.0
For a 0.5 mg/ml antibody concentration in 1% BSA, dissolve in 200 µl buffer.
NOTE: Be careful opening the vial since the antibody resides in a vacuum.

Product images:

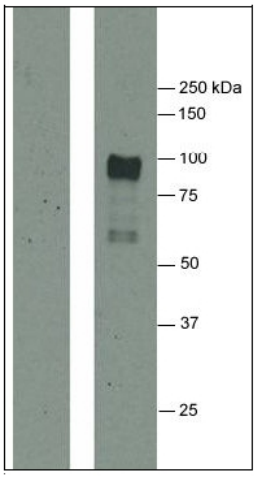

Figure.1: Specificity of Anti-Citrullinated Fibrinogen Immunoglobulin, clone 3F2, determined by Immunoblot analysis. Blot contains Human Fibrinogen in the left lane and Rabbit PAD2 deiminated Human Fibrinogen in the right lane. Incubated with antibody frac