

**Product Name**

Deiminated biotinylated human Fibrinogen  
(huPAD2)

**CAT No.**

MQ 21.101-biotin

**LOT No.**

14215

**Quantity**

100 µg

Edition: October 28, 2014

**Intended use**

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

This product is tested for use in enzyme-linked immunosorbent assay (ELISA).

**Reagent provided**

Human fibrinogen (Sigma-Aldrich, F4883; 59% protein, 97% clottable protein) was biotinylated and subsequently deiminated in vitro by recombinant human peptidyl arginine deiminase 2 (PAD2; MQ16.201).

The deiminated fibrinogen is supplied in 100 mM Tris-HCl pH 7.6, 10 mM CaCl<sub>2</sub>, 5 mM DTT at a concentration of 1 mg/ml.

**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.

**Storage instructions**

Store at -80°C. Repeated freeze/thaw cycles are not recommended.

**Dilution guidelines**

ELISA: 300 ng/well in a neutravidin-coated 96-well ELISA plate (Figure 1).

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

**Relevance**

Fibrinogen is a protein produced by the liver, which is involved in blood clot formation.

Deimination, or citrullination, is a post-translational modification in which arginine residues are converted to citrulline residues by the enzyme peptidyl arginine deiminase (PAD). Citrullination has been shown to be associated with several diseases, such as cancer, multiple sclerosis, rheumatoid arthritis and Alzheimer's disease.



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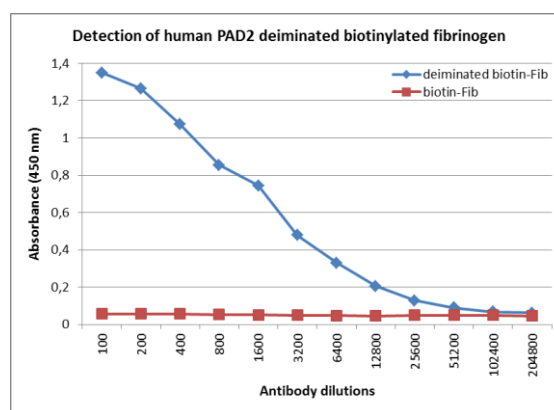


Figure 1: Human recombinant PAD2 deiminated biotinylated fibrinogen (deiminated biotin-Fib) and non-deiminated biotinylated fibrinogen (biotin-Fib) were bound to a neutravidin-coated 96-well ELISA plate (300 ng/well). To detect the deiminated fibrinogen, a proprietary anti-deiminated fibrinogen antibody (MQ13.102) was used and diluted from a stock solution of 0,5 mg/ml.