

## ARG81644 Rat Fibronectin ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81644-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81644-002	Standard	2 X 10 ng/vial	4°C
ARG81644-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81644-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81644-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81644-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81644-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81644-008	25X Wash buffer	20 ml	4°C
ARG81644-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81644-010	STOP solution	10 ml (Ready to use)	4°C
ARG81644-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81644 Rat Fibronectin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Fibronectin in serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Fibronectin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.3%; Inter-Assay CV: 6.4%
Alternate Names	ED-B; CIG; GFND; Cold-insoluble globulin; FNZ; LETS; GFND2; Fibronectin; MSF; FINC; FN

## Application Instructions

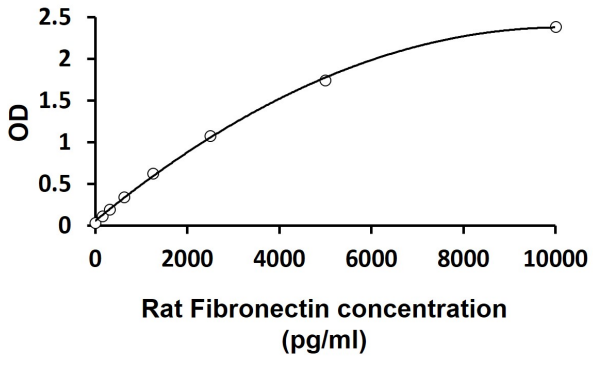
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	FN1
Gene Full Name	fibronectin 1
Background	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants. However, the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008]
Function	<p>Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts.</p> <p>Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer, named superfibronectin, exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth, angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling. [UniProt]</p>
Highlight	<p>Related products:  <a href="#">Fibronectin antibodies</a>; <a href="#">Fibronectin ELISA Kits</a>; <a href="#">Fibronectin Duos / Panels</a>;</p> <p>Related news:  <a href="#">New antibody panels for Myofibroblasts and CAFs</a>  New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	<p>Sulfated.</p> <p>It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated.</p> <p>Forms covalent cross-links mediated by a transglutaminase, such as F13A or TGM2, between a glutamine and the epsilon-amino group of a lysine residue, forming homopolymers and heteropolymers (e.g. fibrinogen-fibronectin, collagen-fibronectin heteropolymers).</p> <p>Phosphorylated by FAM20C in the extracellular medium.</p> <p>Proteolytic processing produces the C-terminal NC1 peptide, anastellin.</p> <p>Some lysine residues are oxidized to allysine by LOXL3, promoting fibronectin activation and matrix formation. [UniProt]</p>



ARG81644 Rat Fibronectin ELISA Kit standard curve image

ARG81644 Rat Fibronectin ELISA Kit results of a typical standard run with optical density reading at 450 nm.