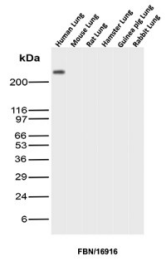
Fibronectin 1 Antibody / Human Fibronectin Antibody [clone FBN/16916R] (V6156)

Catalog No.	Formulation	Size
V6156-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V6156-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V6156SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	FBN/16916R
Purity	Protein A affinity
UniProt	P02751
Localization	Connective tissue matrix
Applications	Western blot: 2-4ug/ml
Limitations	This Fibronectin 1 Antibody / Human Fibronectin Antibody is available for research use only.



Fibronectin 1 Antibody Lung WB. Western blot analysis was performed using Fibronectin 1 Antibody (clone FBN/16916R). Lane 1: human lung tissue lysate; lane 2: mouse lung tissue lysate; lane 3: rat lung tissue lysate; lane 4: hamster lung tissue lysate; lane 5: guinea pig lung tissue lysate; lane 6: rabbit lung tissue lysate. A strong immunoreactive band is detected at approximately 220â€“250 kDa exclusively in the human lung lysate, while no corresponding bands are observed in the non-human tissue lysates. These results demonstrate the human specificity of this Human Fibronectin Antibody for Western blot detection of Fibronectin 1.

Description

Fibronectin 1 Antibody recognizes human fibronectin, a high-molecular-weight extracellular matrix glycoprotein encoded

by the FN1 gene. Fibronectin is a major structural component of the extracellular matrix where it mediates cell adhesion, migration, tissue organization, and wound repair through interactions with integrins, collagen, fibrin, and proteoglycans. This recombinant rabbit monoclonal antibody (clone FBN/16916R) has been developed for reliable detection of human fibronectin, making it particularly valuable for studies focused on human tissues and disease models. NSJ Bioreagents supplies this Fibronectin 1 Antibody to support sensitive and reproducible detection of human fibronectin across multiple research applications.

Fibronectin exists as both a soluble plasma protein synthesized primarily by hepatocytes and an insoluble cellular form incorporated into the extracellular matrix by fibroblasts, endothelial cells, epithelial cells, and numerous additional cell types. Alternative splicing of the FN1 transcript generates multiple isoforms that contribute to tissue-specific extracellular matrix organization and remodeling. Through binding to integrins, fibronectin regulates cell attachment, cytoskeletal organization, migration, proliferation, and survival while influencing embryonic development, angiogenesis, and tissue regeneration. Consequently, Fibronectin 1 Antibody is widely used to investigate extracellular matrix biology and cell-matrix interactions in human tissues.

Human fibronectin is frequently studied in cancer, fibrosis, cardiovascular disease, chronic inflammation, and wound healing. Elevated fibronectin deposition is associated with tumor progression, epithelial-to-mesenchymal transition, metastatic dissemination, and remodeling of the tumor microenvironment. Increased expression is also observed during tissue injury and fibrotic disease, where extracellular matrix accumulation contributes to organ dysfunction. Because clone FBN/16916R is optimized for human fibronectin detection, Fibronectin 1 Antibody provides a valuable tool for investigations focused specifically on human biology, pathology, and translational research while minimizing cross-species reactivity.

Fibronectin 1 Antibody enables reliable detection of human fibronectin in studies of extracellular matrix organization, cell adhesion, tissue remodeling, fibrosis, and cancer progression. The recombinant rabbit monoclonal format of clone FBN/16916R provides excellent specificity, sensitivity, and lot-to-lot consistency, making this antibody a dependable reagent for researchers investigating human extracellular matrix biology.

Researchers investigating extracellular matrix remodeling, stromal organization, and integrin-mediated adhesion pathways may also be interested in our Fibronectin 1 Antibody / Extracellular Matrix Marker page featuring validated immunohistochemistry, western blot, and protein microarray specificity data for ECM biology research.

Application Notes

1. Optimal dilution of the Fibronectin 1 Antibody / Human Fibronectin Antibody should be determined by the researcher.

2. This Human Fibronectin Antibody is recombinantly produced by expression in CHO cells.

Immunogen

A portion of amino acids 467-595 was used as the immunogen for the Fibronectin 1 antibody.

Storage

Store the Fibronectin 1 antibody at 2-8oC for up to one month (with azide) or aliquot and store at -20oC or colder (without azide/longer term storage).

Alternate Names

Human Fibronectin antibody, FN1 antibody, Fibronectin antibody, Cell Adhesion Glycoprotein antibody, Extracellular Matrix Glycoprotein antibody, Cold Insoluble Globulin antibody

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