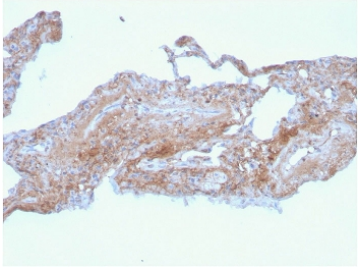
FN1 Antibody / Microarray Specificity Validated [clone FN1/2948] (V8387)

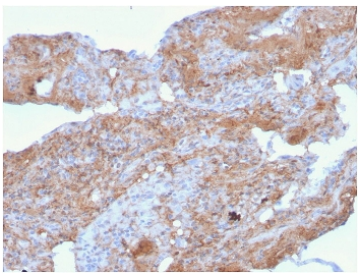
Catalog No.	Formulation	Size
V8387-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8387-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8387SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

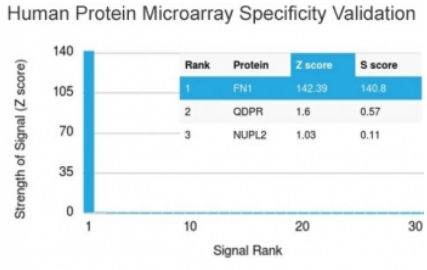
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	FN1/2948
Purity	Protein G affinity chromatography
UniProt	P02751
Localization	Connective tissue matrix
Applications	ELISA (order Ab without BSA for coating) Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This FN1 Antibody / Microarray Specificity Validated is available for research use only.



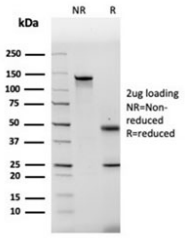
FN1 Antibody Human Lung IHC. Immunohistochemistry analysis of FFPE human lung tissue stained with clone FN1/2948. Extracellular and stromal HRP-DAB brown staining is observed throughout connective tissue and alveolar-associated matrix regions, consistent with expression of Fibronectin 1 / FN1 within extracellular matrix remodeling and tissue organization pathways. Clone FN1/2948 is supported by HuProt(TM) protein microarray specificity validation demonstrating highly selective recognition of FN1 in complex protein environments. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



FN1 Antibody Lung Stromal Matrix IHC. Immunohistochemistry analysis of FFPE human lung tissue stained with clone FN1/2948. Diffuse extracellular HRP-DAB brown staining highlights stromal connective tissue and matrix-associated structures consistent with expression of Fibronectin 1 / FN1, a major extracellular matrix glycoprotein involved in tissue remodeling and cellular adhesion pathways. Clone FN1/2948 is supported by HuProt(TM) protein microarray specificity validation demonstrating selective recognition of FN1 in complex extracellular matrix environments. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



FN1 Antibody Protein Microarray Validation. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using clone FN1/2948. These results demonstrate high specificity of the mouse monoclonal antibody for Fibronectin 1 / FN1, a major extracellular matrix glycoprotein involved in stromal organization, tissue remodeling, and integrin-mediated adhesion pathways. Z- and S-score analysis confirms strong preferential binding to the intended target relative to non-specific proteins represented on the HuProt(TM) array, supporting the microarray specificity validated differentiation of clone FN1/2948. The Z-score represents the signal strength generated by antibody binding to an individual protein relative to the overall array background, while the S-score reflects the relative specificity gap between the top-ranked target and subsequent proteins on the array.



SDS-PAGE analysis of purified, BSA-free FN1 antibody (clone FN1/2949) as confirmation of integrity and purity.

Description

Fibronectin 1 (FN1) is a major extracellular matrix glycoprotein involved in tissue architecture, stromal organization, cell adhesion, and extracellular matrix remodeling. FN1 Antibody / Microarray Specificity Validated is useful for studying extracellular matrix biology, connective tissue organization, and tumor-associated stromal signaling pathways. FN1 antibody, also referred to as Fibronectin antibody and extracellular matrix glycoprotein antibody in the literature, recognizes a multifunctional adhesive protein that contributes to integrin-mediated signaling and structural organization of connective tissue environments.

FN1 is predominantly localized within extracellular matrix compartments where it interacts with integrins, collagen, fibrin, and additional matrix-associated proteins to regulate cellular adhesion, migration, and tissue stability. The protein functions in wound healing, angiogenesis, embryonic development, and epithelial-stromal communication pathways associated with normal tissue maintenance and disease progression. Fibronectin 1 is also heavily involved in matrix remodeling responses occurring during fibrosis, chronic inflammation, and tumor microenvironment activation.

Because FN1 expression is strongly associated with connective tissue remodeling and stromal activation, this target has become highly relevant in cancer biology, fibrosis research, and studies examining epithelial-mesenchymal transition. Increased fibronectin deposition is commonly associated with invasive tumor behavior, fibroblast activation, metastatic progression, and altered extracellular matrix stiffness. Expression patterns have also been investigated in pulmonary fibrosis, vascular remodeling, tissue repair, and inflammatory signaling pathways linked to chronic disease progression.

This page features clone FN1/2948, a mouse monoclonal antibody supported by HuProt(TM) protein microarray specificity validation demonstrating highly selective recognition of Fibronectin 1 relative to thousands of non-target

proteins. Protein microarray specificity analysis provides an additional layer of validation for studies requiring strong target selectivity within complex extracellular matrix environments. Immunohistochemistry studies commonly demonstrate extracellular and stromal staining patterns consistent with fibronectin localization in connective tissue structures and matrix-rich tissue compartments.

A mouse monoclonal clone FN1/2948 antibody can be used for immunohistochemistry and protein microarray specificity validation studies examining extracellular matrix organization and stromal remodeling pathways. Because Fibronectin 1 functions as a major structural and signaling component of the extracellular matrix, this target remains highly relevant for studies focused on tissue remodeling, fibrosis, cancer progression, and cell adhesion biology. Researchers studying extracellular matrix remodeling, stromal organization, and integrin-mediated adhesion may also be interested in our Fibronectin 1 Antibody / Extracellular Matrix Marker page featuring immunohistochemistry, western blot, and protein microarray specificity data for ECM biology research.

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

Optimal dilution of the FN1 Antibody / Microarray Specificity Validated should be determined by the researcher.

This MAb reacts with human cellular fibronectin, but not plasma fibronectin.

Immunogen

A portion of amino acids 467-595 from the human protein was used as the immunogen for the FN1 antibody.

Storage

Store the FN1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

FN1 microarray validated antibody, Fibronectin antibody, Extracellular matrix glycoprotein antibody, Stromal matrix marker antibody, ECM remodeling antibody

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