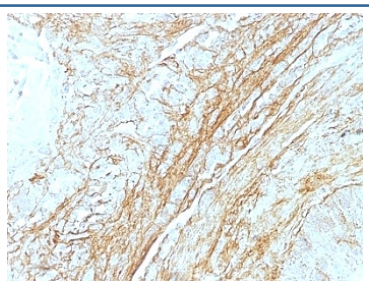
Tenascin C Antibody T2H5 / Cytotactin Antibody [clone T2H5] (V2602)

Catalog No.	Formulation	Size
V2602-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2602-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2602SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2602IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Citations (7)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	T2H5
Purity	Protein G affinity chromatography
UniProt	P24821
Localization	Connective tissue matrix
Applications	Immunohistochemistry (FFPE): 2-4ug/ml for 30 min at RT
Limitations	This Tenascin C Antibody T2H5 / Cytotactin Antibody is available for research use only.



Tenascin C Antibody T2H5 / Cytotactin Antibody in Human Lung Carcinoma IHC. Immunohistochemistry staining of FFPE human lung carcinoma tissue with Tenascin C Antibody clone T2H5 at 4 ug/ml shows prominent extracellular staining of connective tissue and tumor-associated stromal matrix. Heat-induced epitope retrieval was performed using 10 mM Tris with 1 mM EDTA, pH 9.0, followed by detection with an ABC system and DAB chromogen. The staining pattern highlights the extracellular matrix localization of Tenascin C within the carcinoma-associated stroma.

Description

Tenascin C Antibody T2H5 / Cytotactin Antibody recognizes Tenascin C (TNC), a large extracellular matrix glycoprotein involved in tissue organization, cell adhesion, migration, and signaling. Tenascin C, historically known as cytotactin and hexabrachion, forms a characteristic disulfide-linked hexamer and contains multiple structural domains that mediate interactions with extracellular matrix components, cell-surface receptors, and other proteins. Its highly regulated expression distinguishes Tenascin C from many constitutively expressed components of the extracellular matrix.

Tenascin C is particularly prominent during embryonic development, where it is associated with sites of active tissue remodeling and mesenchymal-epithelial interactions. Expression is substantially more restricted in most normal adult tissues but can increase following tissue injury, inflammation, and other conditions involving extracellular matrix remodeling. Through interactions with integrins, fibronectin, and additional extracellular molecules, TNC can influence cell adhesion, migration, proliferation, and the organization of the surrounding matrix.

Tenascin C has also received considerable attention in cancer biology because its expression is frequently elevated within the tumor microenvironment. Increased TNC can occur in the stromal and neovascular compartments of diverse tumors and has been investigated in relation to tumor progression, angiogenesis, invasion, and remodeling of the extracellular matrix. These characteristics have made Tenascin C an important marker for studying tumor-associated stroma as well as the dynamic interactions between malignant cells and their surrounding extracellular environment.

Alternative splicing generates multiple Tenascin C isoforms that differ in the number of fibronectin type III domains incorporated into the mature protein. These isoforms contribute to substantial variation in molecular size and may display differences in tissue distribution and biological activity. Clone T2H5 recognizes Tenascin C and has historically been reported to detect approximately 210 kDa and 300 kDa forms of the protein. Specificity of the monoclonal antibody has also been evaluated by sequential immunoprecipitation using a polyclonal antibody against Tenascin C.

NSJ Bioreagents offers this Cytotactin Antibody for research into extracellular matrix organization and Tenascin C biology. A Tenascin C Antibody can support investigation of TNC expression in developmental biology, tissue remodeling, tumor-associated stroma, and other processes involving dynamic changes in the extracellular matrix.

Explore our Cancer Marker Antibodies page for additional reagents targeting proteins associated with tumor biology, angiogenesis, extracellular matrix remodeling, and cancer progression.

Application Notes

Optimal dilution of the Tenascin C Antibody T2H5 / Cytotactin Antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human breast carcinoma cells were used as the immunogen for the Tenascin C Antibody T2H5.

Storage

Store the Tenascin C Antibody T2H5 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

TNC antibody, Tenascin C antibody, Tenascin-C antibody, Cytotactin antibody, Hexabrachion antibody, Tenascin antibody

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