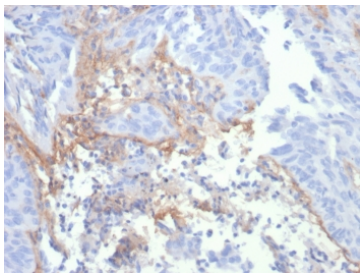
TNC Antibody TNC/4806 / Hexabrachion Antibody [clone TNC/4806] (V5304)

Catalog No.	Formulation	Size
V5304-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5304-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5304SAF-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 IgG2c, kappa
Clone Name	TNC/4806
Purity	Protein A/G affinity
UniProt	P24821
Localization	Connective tissue matrix
Applications	Immunohistochemistry (FFPE) : 2-4ug/ml for 30 minutes at RT
Limitations	This TNC Antibody TNC/4806 / Hexabrachion Antibody is available for research use only.



TNC Antibody TNC/4806 / Hexabrachion Antibody in Human Lung IHC. Immunohistochemistry staining of FFPE human lung tissue with TNC Antibody clone TNC/4806 shows prominent extracellular staining associated with the connective tissue matrix. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling before testing. The staining pattern is consistent with the extracellular matrix localization of Tenascin C.

Description

TNC Antibody TNC/4806 / Hexabrachion Antibody recognizes Tenascin C, a large extracellular matrix glycoprotein encoded by the TNC gene. Also historically known as hexabrachion and cytotactin, Tenascin C is a disulfide-linked

hexameric protein that contributes to extracellular matrix organization and regulates interactions between cells and their surrounding environment. Its modular structure includes epidermal growth factor-like repeats, fibronectin type III domains, and a fibrinogen-like region that support interactions with matrix proteins, cell-surface receptors, and other extracellular molecules.

Tenascin C expression is highly regulated during development. It is particularly associated with regions undergoing active tissue remodeling and mesenchymal-epithelial interactions, where it can influence cell adhesion, migration, proliferation, and differentiation. Expression becomes more restricted in normal adult tissues but can increase substantially during wound healing, inflammation, fibrosis, and other processes involving extracellular matrix remodeling.

TNC is also widely studied in cancer biology because Tenascin C can become strongly expressed within tumor-associated stroma and neovasculature. Increased expression has been reported in multiple tumor types and has been investigated in connection with tumor cell invasion, angiogenesis, metastatic progression, and changes within the tumor microenvironment. Rather than serving solely as a structural matrix component, Tenascin C can modify cell-matrix interactions and signaling processes that influence cellular behavior.

Alternative splicing of TNC produces multiple protein isoforms, particularly through variation within its fibronectin type III repeat region. This structural diversity contributes to differences in molecular size and may influence the biological properties and distribution of individual Tenascin C forms. Clone TNC/4806 is a mouse monoclonal antibody generated against recombinant full-length human Tenascin C, providing a distinct clone for investigating this extracellular matrix protein.

NSJ Bioreagents offers this Hexabrachion Antibody for research into Tenascin C expression, extracellular matrix organization, and tissue remodeling. A TNC Antibody can help investigate changes in Tenascin C associated with development, stromal biology, angiogenesis, and the tumor microenvironment.

For a highly published monoclonal option, see our Tenascin C Antibody T2H5 / Cytotactin Antibody page.

Application Notes

Optimal dilution of the TNC Antibody TNC/4806 / Hexabrachion Antibody should be determined by the researcher.

Immunogen

Recombinant human full-length protein was used as the immunogen for the TNC Antibody TNC/4806.

Storage

Aliquot the TNC Antibody TNC/4806 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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

Copyright © NSJ Bioreagents. All rights reserved.