

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tenascin XB2 in ELISAs and Western blots. Also detects Tenascin X in Western blots. In direct ELISAs, no cross-reactivity with recombinant human Tenascin R is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 766842
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Tenascin XB2 Met1-Tyr673 Accession # AAH33740
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Tenascin XB2 (TN-XB2; also TN-XB-Short/S and tenascin-X isoform 2) is a 73-75 kDa member of the tenascin family of extracellular matrix molecules. It is expressed by adrenal gland, and represents the use of an intronic promoter that is tied to an internal start site within the TN-XB gene. A duplication of the TN-XB2 region has created a gene called TN-XA that codes for the same ORF but is not translated. Although TN-XB2 has been reported to bind to tropoelastin, plus collagens I, III and V, other studies using soluble fragments of TN-XB report only tropoelastin interaction. Human TN-XB2 is 673 amino acids (aa) in length. It contains four fibronectin type III repeats (aa 82-442), and one C-terminal fibrinogen-like globular region (aa 449-664). Antibodies to TN-XB2 recognize full-length 465 kDa Tenascin X (TN-XB), 75 kDa and 140-150 kDa C-terminal fragments. Although human TN-XB2 shares 84% aa identity with full-length mouse TN-XB in its C-terminus, there does not appear to be an equivalent alternative start site in the mouse gene.

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