

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects recombinant human Tenascin X isoform 2 in direct ELISAs and human Tenascin X in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Tenascin R is observed.                                                                       |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Tenascin X isoform 2<br>Met1-Gly673<br>Accession # AAH33740                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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