

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Tensin 4/CTEN in direct ELISAs and Western blots.                                                                                                                                                                                                             |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 684524                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Tensin 4/CTEN<br>Ser2-Gln107<br>Accession # Q8IZW8                                                                                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 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

CTEN, also known as Tensin 4, is a 90 kDa cytoplasmic protein that is associated with focal adhesions in epithelial cells and is upregulated in several carcinomas. It promotes tumorigenesis by disrupting the attachment of focal adhesions to the cytoskeleton, promoting epithelial-mesenchymal transition, and binding nuclear beta-Catenin. CTEN is cleaved by Caspase-3 at Asp570-Ser571 during apoptosis. It contains a serine-rich region (aa 168-324), one SH2 domain (aa 449-556), and a phosphatase domain (aa 548-714). Within aa 1-107, human CTEN shares 62% and 59% aa sequence identity with mouse and rat CTEN, respectively.

## PRODUCT SPECIFIC NOTICES

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