

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Attractin in direct ELISAs.                                                                                                                                                                                                                                   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 750003                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Attractin<br>Ala84-Gln1272<br>Accession # O75882                                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 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.

**Immunocytochemistry** 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

Attractin (ATRN), also known as DPPT-L, is an approximately 200 kDa transmembrane glycoprotein that shows dipeptidyl peptidase activity similar to DPPIV/CD26. Attractin is involved in a variety of processes including monocyte-T cell adhesion, axon myelination, melanocyte pigment synthesis, and energy homeostasis. The extracellular region of human Attractin contains one EGF-like domain, one CUB domain, six Kelch repeats, four PSI domains, one C-type lectin domain, and two laminin EGF-like domains. Alternate splicing of human Attractin generates a secreted isoform that lacks the transmembrane and cytoplasmic regions. Attractin is transiently upregulated during T cell activation before expression switches to the 175 kDa secreted isoform which is released into the circulation. Soluble Attractin is preferentially expressed by leukocytes and differentiating neurons. It blocks neurite formation and is elevated in the CSF of astrocytoma patients. Within aa 84-1272, human Attractin shares 95% aa sequence identity with mouse and rat Attractin.

## PRODUCT SPECIFIC NOTICES

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