

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Aminopeptidase O/ONPEP in direct ELISAs.                                                                                                                                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 562912                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human Aminopeptidase O/ONPEP<br>Met1-Phe819<br>Accession # Q8N6M6                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 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.

**Immunohistochemistry** 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

Aminopeptidase O (AP-O; also C9orf3) is a 93 kDa (predicted), intracellular member of the M1 metalloprotease family of enzymes. It is expressed in heart, testis and pancreas where it apparently cleaves N terminal Arg and Asn residues. Human Aminopeptidase O is 819 amino acids in length. It contains one catalytic domain (aa 167-589) with a Zn-binding site (His479-His483) and a C terminal ARM region (aa 706-819). At least three additional isoforms exist. One shows a deletion of aa 455-553; a second has an 11 aa substitution for the C terminal 265 amino acids; and a third shows both a deletion of aa 455-553 and an 11 aa substitution for the C-terminal 46 amino acids. Full length human Aminopeptidase O is 76% aa identical to mouse Aminopeptidase O.

#### PRODUCT SPECIFIC NOTICES

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