

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human DPPII/QPP/DPP7 in direct ELISAs.                                                                                                                                                                                                                              |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 398011                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human DPPII/QPP/DPP7<br>Gly22-Leu492<br>Accession # ABM85563                                                                                                                                                                |
| <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.

**Neutralization** 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

Dipeptidyl-peptidase II (DPPII) is identical to quiescent cell proline dipeptidase (QPP) and dipeptidylpeptidase 7 (DPP7) (1, 2). It shares some substrate and cleavage specificity with DPPIV/CD26, DPP8, DPP9 and seprase/FAP (fibroblast activation protein), members of the S09 family of serine proteases. As prolyl proteases that cleave proteins and peptides after proline residues, these enzymes have high potential for drug discovery (3, 4). However, DPP7 is not a member of the S09 family, but a member of the S28 family that also includes lysosomal Pro-X carboxypeptidase/prolylcarboxypeptidase/PRCP and thymus-specific serine peptidase/PRSS16 (2). The human DPP7 precursor consists of a signal peptide (aa 1-21) and a mature chain (aa 22-492). The purified rhDPP7 is active against Lys-Pro-AMC and Lys-Ala-AMC. Its activity against Lys-Pro-AMC is approximately 10-fold of that against Lys-Ala-AMC under otherwise identical conditions.

#### PRODUCT SPECIFIC NOTICES

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