

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DPPII/QPP/DPP7 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 5% cross-reactivity with recombinant mouse DPP7 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 398024
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human DPPII/QPP/DPP7 Gly22-Leu492 Accession # AAH11907
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage 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 amino acid sequence of human DPP7 is 81%, 80% and 79% identical to that of mouse, rat and dog.

PRODUCT SPECIFIC NOTICES

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