

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Aminopeptidase P2/XPNPEP2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant mouse Aminopeptidase P2/XPNPEP2 and no cross-reactivity with recombinant human XPNPEP1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 391118
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Aminopeptidase P2/XPNPEP2 His22-Ala650 Accession # AAB96394
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human Aminopeptidase P2/XPNPEP2 (Catalog # 2490-ZN)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Aminopeptidase P2/XPNPEP2 (Catalog # 2490-ZN), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The human XPNPEP2 gene encodes Aminopeptidase P2 (APP2), which is also known as X-prolyl Aminopeptidase 2 or membrane bound Aminopeptidase P (1-4). It is a member of the M24 family of metalloproteases, which also contains methionine Aminopeptidases, X-Pro dipeptidase, Aminopeptidase P1, Aminopeptidase P homolog, proliferation-associated protein 1, and suppressor of Ty homolog or chromatin-specific transcription elongation factor large subunit (5). Mammalian APP2 are predicted to be GPI-anchored membrane proteases and their biological functions have been reviewed (6). Human APP2 is widely expressed in many adult tissues with the highest levels in the kidney (7).

References:

1. Venema, R.C. *et al.* (1997) *Biochim. Biophys. Acta* **1354**:45.
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3. Cottrell, G.S. *et al.* (1998) *Biochem. Soc. Trans.* **26**:S248.
4. Prueitt, R.L. *et al.* (2000) *Cytogenet. Cell Genet.* **89**:44.
5. Barrett, A.J. *et al.* (2004) *Handbook of Proteolytic Enzymes*, Elsevier Academic Press, San Diego.
6. Simmons, W.H. (2004) in *Handbook of Proteolytic Enzymes* (Barrett, A.J. *et al.* eds.) p. 934, Elsevier Academic Press, San Diego.
7. Ersahin C. *et al.* (2005) *Arch. Biochem. Biophys.* **435**:303.

PRODUCT SPECIFIC NOTICES

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