

Human Aminopeptidase P2/XPNPEP2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2490

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Aminopeptidase P2/XPNPEP2 in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant mouse Aminopeptidase P2 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
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.	

Please Note: Optimal ullulions should be determined by each laboratory for each application. General Protocols are available in the Technical Information Section on our website.			
	Recommended	Sample	
	Concentration		
Western Blot	0.1 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 0.2 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). The purified recombinant human APP2 corresponds to the ectodomain and is shown here to be an active aminopeptidase, removing a N-terminal amino acid from a peptide that contains a Pro residue at the second position.

References:

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- Ersahin C. et al. (2005) Arch. Biochem. Biophys. 435:303.

PRODUCT SPECIFIC NOTICES

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