Human Aminopeptidase P1/XPNPEP1 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 409111

Catalog Number: FAB2970T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Aminopeptidase P1/XPNPEP1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) XPNPEP1, rmXPNPEP2, or recombinant human XPNPEP2 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 409111
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Aminopeptidase P1/XPNPEP1 Met1-Gln622 Accession # Q9NQW7
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

The human XPNPEP1 gene encodes aminopeptidase P1 (APP1), which is also known as X-prolyl aminopeptidase with gene aliases of SAMP, XPNPEP, XPNPEPL, and XPNPEPL1 (1-3). It is a member of the M24 family of metalloproteases, which also contains methionine aminopeptidases, X-Pro dipeptidase, aminopeptidase P2, aminopeptidase P homolog, proliferation-associated protein 1, and suppressor of Ty homolog or chromatin-specific transcription elongation factor large subunit (4). It is a soluble enzyme, in contrast to the GPI-anchored APP2 encoded by XPNPEP2 (5). Human APP1 is widely expressed (3). APP1 removes a N-terminal amino acid from a peptide that contains a Pro residue at the second position. The amino acid sequence of human APP1 is 99%, 97%, 95%, 74%, and 73% identical to that of canine, bovine, mouse/rat, *Xenopus*, and zebrafish, respectively.

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