

Rabbit anti-Human XPNPEP2 Polyclonal Antibody | anti-XPNPEP2 antibody

Anti-XPNPEP2 Antibody, Rabbit Polyclonal

CATALOG # AAA255482	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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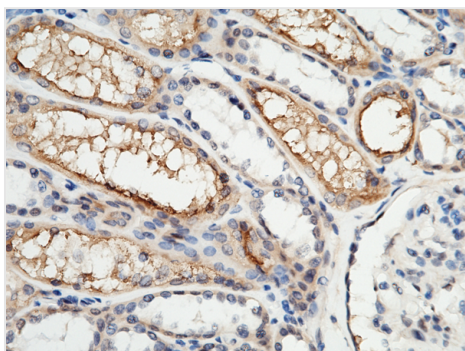
PRODUCT SYNONYMS

XPNPEP2; Polyclonal Antibody; Anti-XPNPEP2 Antibody; Rabbit Polyclonal; XPNPEP2 Antibody; Rabbit PAb; Antigen Affinity Purified; X-prolyl aminopeptidase (aminopeptidase P) 2; membrane-bound; Anti-AEACEI Antibody; Anti-APP2 Antibody; anti-XPNPEP2 antibody

PRODUCT SPECIFICATIONS

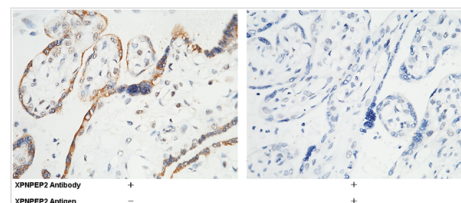
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human XPNPEP2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-XPNPEP2 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human XPNPEP2 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human XPNPEP2 (rh XPNPEP2). XPNPEP2 specific IgG was purified by Human XPNPEP2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human XPNPEP2 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human XPNPEP2 in human placenta with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).

ADDITIONAL INFORMATION

Related Product Information for anti-XPNPEP2 antibody	Aminopeptidase P (APP) is a hydrolase specific for N-terminal imido bonds, which are common to several collagen degradation products, neuropeptides, vasoactive peptides, and cytokines. A membrane-bound and soluble form of this enzyme (XPNPEP2) have been identified as products of two separate genes. XPNPEP2, the X-linked gene that encodes membranous aminopeptidase P (APP), has been reported to associate with APP activity. The membrane aminopeptidase P (XPNPEP2) is largely limited in distribution to endothelia and brush border epithelia. APP and XPNPEP2 contain homologous blocks of sequence common to members of the "pita bread-fold" protein family, of which Escherichia coli methionine aminopeptidase is the prototype. The C-2399A variant in XPNPEP2 is associated with reduced APP activity and a higher incidence of AE-ACEi. XPNPEP2 mRNA was detected in fibroblasts that carry the translocation, suggesting that this gene at least partially escapes X inactivation. XPNPEP2 is a candidate gene for premature ovarian failure (POF).
References	Sprinkle TJ, et al. (2000) Cloning, chromosomal sublocalization of the human soluble aminopeptidase P gene (XPNPEP1) to 10q25.3 and conservation of the putative proton shuttle and metal ligand binding sites with XPNPEP2. Arch Biochem Biophys. 378(1): 51-6.Prueitt RL, et al. (2000) Physical mapping of nine Xq translocation breakpoints and identification of XPNPEP2 as a premature ovarian failure candidate gene. Cytogenet Cell Genet. 89(1-2): 44-50.Duan QL, et al. (2005) A variant in XPNPEP2 is associated with angioedema induced by angiotensin I-converting enzyme inhibitors. Am J Hum Genet. 77(4): 617-26.Woodard-Grice AV, et al. (2010) Sex-dependent and race-dependent association of XPNPEP2 C-2399A polymorphism with angiotensin-converting enzyme inhibitor-associated angioedema. Pharmacogenet Genomics. 20(9): 532-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	93141226
NCBI GeneID	7512
NCBI Accession #	NP_003390.4
NCBI GenBank Nucleotide #	NM_003399.5
UniProt Accession #	O43895; O75994; A0AV16
Molecular Weight	75,625 Da
NCBI Official Full Name	xaa-Pro aminopeptidase 2
NCBI Official Synonym Full Names	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound
NCBI Official Symbol	XPNPEP2
NCBI Official Synonym Symbols	APP2; AEACEI
NCBI Protein Information	xaa-Pro aminopeptidase 2; mAmP; membrane-bound APP; membrane-bound AmP; X-Pro aminopeptidase 2; aminoacylproline aminopeptidase; membrane-bound aminopeptidase P
UniProt Protein Name	Xaa-Pro aminopeptidase 2
UniProt Gene Name	XPNPEP2
UniProt Synonym Gene Names	Membrane-bound APP; Membrane-bound AmP; mAmP
UniProt Entry Name	XPP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.