

Human/Mouse PGPEP-1 Antibody

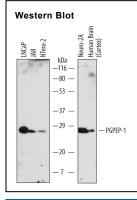
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6278

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human PGPEP-1 in direct ELISAs and, human and mouse PGPEP-1 in Western blots.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human PGPEP-1 Met1-His209 Accession # Q9NXJ5	
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	See Below



Detection of Human and Mouse PGPEP-1 by Western Blot. Western blot shows lysates of LNCaP human prostate cancer cell line, JAR human choriocarcinoma cell line, NTera-2 human testicular embryonic carcinoma cell line, Neuro-2A mouse neuroblastoma cell line, and human brain (cortex) tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human PGPEP-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6278) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for PGPEP-1 at approximately 23 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE		
Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.	
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.

Pyroglutamyl peptidase-1 (PGPEP-1) is an omega peptidase which removes pyroglutamyl residues from the amino termini of peptides and proteins (1). It is a cytosolic cysteine peptidase that is expressed in most cell types (2). The enzyme requires a thiol-reducing agent for activity (3). PGPEP-1 is potentially involved in the inactivation of biologically active peptides that possess an amino terminal pyroglutamyl group (3). Examples of such peptides include neurotensin, luteinizing hormone releasing hormone, and thyrotropin-releasing hormone. Human and mouse PGPEP-1 share 95% aa sequence identity.

References:

- 1. Kilbane Z. et al. (2007) Mol. Cell. Biochem. 297:189.
- Cummins P.M. and B. O'Connor (1998) Biochim. Biophys. Acta. 1429:1.
- 3. Dando P.M. et al. (2003) Protein Express. Purif. 28:111.

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