Human Purine Nucleoside Phosphorylase/ PNP Antibody

Monoclonal Mouse IgG_{2B} Clone # 773511

Catalog Number: MAB6486

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Purine Nucleoside Phosphorylase/PNP in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 773511
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Purine Nucleoside Phosphorylase/PNP Met1-Ser289 Accession # P00491
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 as a 0.2 μm filtered solution in PBS.

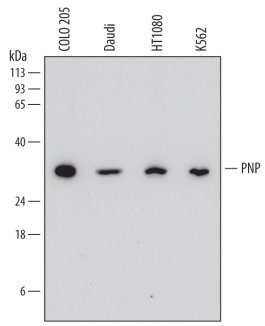
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

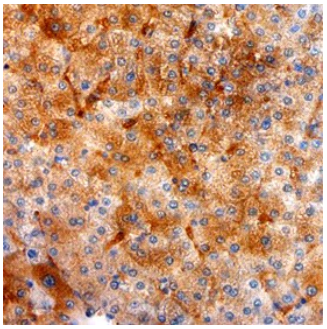
DATA

Western Blot



Detection of Human Purine Nucleoside Phosphorylase/PNP by Western Blot.
Western blot shows lysates of COLO 205 human colorectal adenocarcinoma cell line, Daudi human Burkitt's lymphoma cell line, HT1080 human fibrosarcoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human Purine Nucleoside Phosphorylase/PNP Monoclonal Antibody (Catalog # MAB6486) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Purine Nucleoside Phosphorylase/PNP at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Purine Nucleoside Phosphorylase/PNP in Human Liver.
Purine Nucleoside Phosphorylase/PNP was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Purine Nucleoside Phosphorylase/PNP Monoclonal Antibody (Catalog # MAB6486) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). Specific staining was localized to endothelial cells in bile canaliculi. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 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.

BACKGROUND

Purine Nucleoside Phosphorylase (PNP) catalyzes the phophorolysis of N-ribosidic bonds of purine nucleosides and deoxynucleosides. Physiological substrates of PNP include inosine, guanosine, and 2'-deoxyguanosine, but not adenosine (1). PNP is expressed in most tissues, with markedly greater expression in lymphoid tissues. Genetic deficiencies of PNP result in severely compromised T-lymphocyte function and neurologic dysfunction (2, 3). PNP is used in assays for the measurement of inorganic phosphate (4).

References:

1. Schramm, V.L. (1998) Annu. Rev. Biochem. **67**:693.
2. Stoop, W. *et al.* (1977) N. Eng. J. Med. **296**:651.
3. Markert, M.L. (1991) Immunodefic. Rev. **3**:45.
4. Webb, M.R. (1992) Proc. Natl. Acad. Sci. USA. **89**:4884.

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