

## Rabbit anti-Human PTPD1 Polyclonal Antibody | anti-PTPN21 antibody

PTPD1 Antibody (Center)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA284448 | Rabbit | Human      | Immunohistochemistry, ELISA, Western Blot |

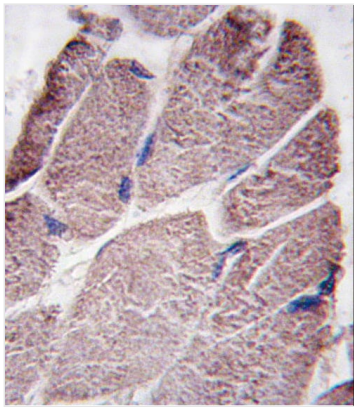
### PRODUCT SYNONYMS

PTPD1; Polyclonal Antibody; PTPD1 Antibody (Center); Tyrosine-protein phosphatase non-receptor type 21; Protein-tyrosine phosphatase D1; PTPN21; anti-PTPN21 antibody

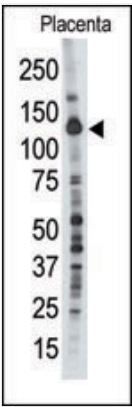
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                    |
| Reactivity                                       | Human                                                                                                                                                                                     |
| Clonality                                        | Polyclonal                                                                                                                                                                                |
| Isotype                                          | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                      | This PTPD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 751-780 amino acids from the Central region of human PTPD1.                       |
| Purity/Purification                              | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                    | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                               | 751-780                                                                                                                                                                                   |
| Sequence Length                                  | 1,174                                                                                                                                                                                     |
| Applicable Applications for anti-PTPN21 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                      |
| Antigen Type                                     | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                   | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PTPD1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of anti-PTPD1 Pab in Placenta tissue lysate (35ug/lane). PTPD1(arrow) was detected using the purified Pab

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PTPN21 antibody | PTPD1 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an N-terminal domain, similar to cytoskeletal- associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis. |
| Product Categories/Family for anti-PTPN21 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                           | Jui, H.Y., et al., J. Biol. Chem. 275(52):41124-41132 (2000).<br>Tokuchi, H., et al., Int J Urol 6(11):572-577 (1999).<br>Higashitsuji, H., et al., Oncogene 10(2):407-414 (1995).<br>Moller, N.P., et al., Proc. Natl. Acad. Sci. U.S.A. 91(16):7477-7481 (1994).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 150418005                                          |
| NCBI GeneID                      | 11099                                              |
| NCBI Accession #                 | NP_008970.2                                        |
| NCBI GenBank Nucleotide #        | NM_007039.3                                        |
| UniProt Accession #              | Q16825                                             |
| Molecular Weight                 | 133281                                             |
| NCBI Official Full Name          | tyrosine-protein phosphatase non-receptor type 21  |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, non-receptor type 21 |
| NCBI Official Symbol             | PTPN21                                             |
| NCBI Official Synonym Symbols    | PTPD1; PTPRL10                                     |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type 21  |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type 21  |

|                            |             |
|----------------------------|-------------|
| UniProt Gene Name          | PTPN21      |
| UniProt Synonym Gene Names | PTPD1       |
| UniProt Entry Name         | PTN21_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ptpd1-antibody-immunohistochemistry-western-blot-elisa/284448>