

Protein-tyrosine phosphatase, Antibody



Catalog Number: 15-288-21497A

SwissProt Accession #: Q9UDA8

Q9UDA8_HUMAN

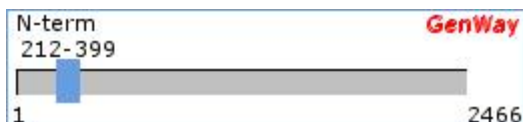
NCBI Accession #: NP_006255.1

GI #: 5453992

Immunogen Sequence Position: 212-399

Length (aa): 2466

Mol. Weight (Da): 14206



Linear Protein Map with Immunogenic Epitope Marked (sequence source from above GI#)

Source: Chicken

Purity: Immunoaffinity Purified

Clonality: Polyclonal

Crossreactivity: Human

Format: Phosphate-Buffered Saline. No preservatives added.

Storage: 4°C for short term (weeks) and -20°C for long term. Avoid frequent freeze and thaw.

Stability: 6-12 months at -20°C.

Shipping: Products may be shipped on ice pack.

Precautions: This product is for *in vitro* research use only. Not for use in diagnostic or therapeutic procedures.

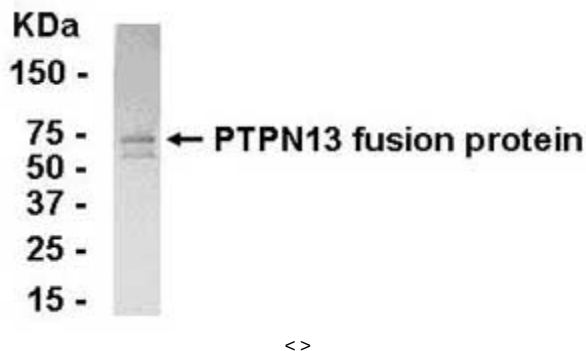
Important Notes: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

APPLICATIONS:

Western Blot	Tested
ELISA, ICC, IHC	Not Tested

TESTING: (secondary reagents and protocols)

Western Blot: E coli-derived fusion protein as test antigen. Affinity-purified IgY dilution: 1:2000, Goat anti-IgY-HRP dilution: 1:1000. Colorimetric method for signal development.



TARGET DESCRIPTION:

The protein encoded by this gene 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 is a large protein that possesses a PTP domain at C-terminus, and multiple noncatalytic domains, which include a domain with similarity to band 4.1 superfamily of cytoskeletal-associated proteins, a region consisting of five PDZ domains, and a leucine zipper motif. This PTP was found to interact with, and dephosphorylate Fas receptor, as well as IkappaBalpha through the PDZ domains, which suggested its role in Fas mediated programmed cell death. This PTP was also shown to interact with GTPase-activating protein, and thus may function as a regulator of Rho signaling pathway. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.

OMIM: NCBI [600267]

CATEGORIES RELATED TO TARGET PROTEIN:

TISSUES: Intracellular, Leukocyte, Lymphocytes, T-Cell, Cytoplasm, Blood Cells, Plasma Membrane, Cell Surface, Colon, Cytoskeleton, Mammary Tumor, Colon Cancer, Colorectal Carcinoma, Colon Tumor, Pancreatic Cancer, Fibroblast, Pancreatic Carcinoma, Ovarian Carcinoma, Hematopoietic, Golgi Membrane

more... Liver Cancer, Gonad, Golgi Apparatus, Oral Cancer, Liver Tumor, Peripheral Blood T-Cell, Peripheral Blood Lymphocytes, Thyroid, Phospholipids, Bone Marrow, Colon Adenocarcinoma, Chromosomes

PROTEIN FUNCTIONS: Protein Biosynthesis, Tyrosine Metabolism, Cytokine Receptors, Antigens, Differentiation, Antigens, Surface, Receptors, Immunologic, Receptors, Cytokine, Membrane Glycoproteins, Oncogene Proteins, Serum Globulins, Immunoglobulins, Adaptor Proteins, Signal Transducing, Phosphotransferases, Cytokines, Peptide Hydrolases, Cell Division, Dna Fragmentation, Insulin, Phosphatidylinositolg Signaling System, Tumor Necrosis Factors

more... Tumor Suppressor Proteins, Gtp-Binding Protein Regulators, Glutathione Metabolism, Insulin Signaling Pathway, Interleukins, Alkyl And Aryl Transferases, Mitogen-Activated Protein Kinases, Glycosyltransferases, Receptors, Peptide, Esterases

DISEASES: Benign Tumor, Adenocarcinoma, Breast Cancer, Breast Tumor, Colorectal Cancer, Colorectal Tumor, Leukemia, Pancreatic Carcinoma, Pancreatic Cancer, Ovarian Cancer, Blood Diseases, Viral Diseases, Myelogenous Leukemia, Oral Cancer, Myelodysplasia, Escherichia Coli, Neck Cancer, Liver Cancer, Fungi, Neoplasm

more...

BACKGROUND REFERENCES:

- [1] Abaan,O.D., et al. PTPL1 is a direct transcriptional target...
- [2] Villa,F., et al. Crystal structure of the PTPL1/FAP-1 hum...
- [3] Kimber,W.A., et al. Interaction of the protein tyrosine phos...
- [4] Kachel,N., et al. Structure determination and ligand inter...
- [5] Ivanov,V.N., et al. FAP-1 association with Fas (Apo-1) inhib...

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