

# Immunotag™ TP4A1 Polyclonal Antibody

| Antibody Specification |  |
|------------------------|--|
| Catalog No.            | ITN2105  |
| Product Description    | Immunotag™ TP4A1 Polyclonal Antibody   |
| Size                   | 50 µg, 100 µg  |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                      |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein         | TP4A1  |
| Clonality              | Polyclonal   |
| Storage/Stability      | -20°C/1 year   |
| Application            | WB,ELISA   |
| Recommended Dilution   | WB 1:500-2000 ELISA 1:5000-20000   |
| Concentration          | 1 mg/ml  |
| Reactive Species       | Human,Mouse,Rat  |
| Host Species           | Rabbit   |
| Immunogen              | Synthesized peptide derived from part region of human protein  |
| Specificity            | TP4A1 Polyclonal Antibody detects endogenous levels of protein.  |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen   |
| Form                   | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.   |
| Gene Name              | PTP4A1 PRL1 PTPCAAX1   |
| Accession No.          | Q93096 Q63739 Q78EG7   |

## Antibody Specification

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| Description              | protein tyrosine phosphatase type IVA, member 1(PTP4A1) Homo sapiens This gene encodes a member of a small class of prenylated protein tyrosine phosphatases (PTPs), which contain a PTP domain and a characteristic C-terminal prenylation motif. The encoded protein is a cell signaling molecule that plays regulatory roles in a variety of cellular processes, including cell proliferation and migration. The protein may also be involved in cancer development and metastasis. This tyrosine phosphatase is a nuclear protein, but may associate with plasma membrane by means of its prenylation motif. Pseudogenes related to this gene are located on chromosomes 1, 2, 5, 7, 11 and X. [provided by RefSeq, Jun 2013],   |
| Protein Expression       | Fetal liver,Lung fibroblast,Mammary carcinoma,Muscle,Regene  |
| Subcellular Localization | nucleus,cytoplasm,early endosome,endoplasmic reticulum,spindle,cytoplasmic side of plasma membrane,extracellular exosome,  |
| Protein Function         | <p>catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,developmental stage:Expressed in fetal liver.,enzyme regulation:Inhibited by sodium orthovanadate and pentamidine.,function:Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. May play a role in the development and maintenance of differentiating epithelial tissues. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis.,induction:Strongly down-regulated upon tetrodotoxin treatment.,PTM:Farnesylated. Farnesylation is required for membrane targeting. Unfarnesylated forms are shifted into the nucleus.,similarity:Belongs to the protein-tyrosine phosphatase family.,similarity:Contains 1 tyrosine-protein phosphatase domain.,subcellular location:And mitotic spindle.,subunit:Homotrimer. Interacts with ATF5 (By similarity). Interacts with tubulin.,tissue specificity:Expressed in bone marrow, lymph nodes, T lymphocytes, spleen, thymus and tonsil. Overexpressed in tumor cell lines.,</p> |
| Usage                    | For Research Use Only! Not for diagnostic or therapeutic procedures.   |