

# Immunotag™ Vinculin Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.            | ITM3242                                                                                                                                                            |
| Product Description    | Immunotag™ Vinculin 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         | Vinculin                                                                                                                                                           |
| Clonality              | Polyclonal                                                                                                                                                         |
| Storage/Stability      | -20°C/1 year                                                                                                                                                       |
| Application            | WB                                                                                                                                                                 |
| Recommended Dilution   | WB: 1:1000 -2000                                                                                                                                                   |
| Concentration          | 1 mg/ml                                                                                                                                                            |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                    |
| Host Species           | Rabbit                                                                                                                                                             |
| Immunogen              | Synthetic Peptide of Vinculin                                                                                                                                      |
| Specificity            | The antibody detects endogenous Vinculin protein.                                                                                                                  |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using specific immunogen                                                       |
| Form                   | PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.                                                                                       |
| Gene Name              | VCL                                                                                                                                                                |
| Accession No.          | P18206 Q64727 P85972                                                                                                                                               |
| Alternate Names        | VCL; Vinculin; Metavinculin                                                                                                                                        |

## Antibody Specification

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| Description                 | vinculin(VCL) Homo sapiens Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008],                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cell Pathway/<br>Category   | Focal adhesion,Adherens_Junction,Leukocyte transendothelial migration,Regulates Actin and Cytoskeleton,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein<br>Expression       | Brain,Endothelial cell,Epithelium,Fetal brain cortex,Hepatocyte,Platelet,Prostate,Retina,Uterus,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Subcellular<br>Localization | extracellular region,cell,cytosol,cytoskeleton,plasma membrane,brush border,cell-cell junction,adherens junction,cell-cell adherens junction,zonula adherens,fascia adherens,focal adhesion,actin cytoskeleton,cell-substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protein Function            | disease:Defects in VCL are the cause of cardiomyopathy dilated type 1W (CMD1W) [MIM:611407]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,function:Involved in cell adhesion. May be involved in the attachment of the actin-based microfilaments to the plasma membrane. May also play important roles in cell morphology and locomotion.,online information:Vinculin entry,PTM:Acetylated; mainly by myristic acid but also small amount of palmitic acid.,PTM:Phosphorylated; on serines, threonines and tyrosines. Phosphorylation on Tyr-1133 in activated platelets affects head-tail interactions and cell spreading but has no effect on actin binding nor on localization to focal adhesion plaques.,similarity:Belongs to the vinculin/alpha-catenin family.,subcellular location:Cytoplasmic face of adhesion plaques.,subunit:Exhibits self-association properties. Interacts with NRAP and SORBS1 (By similarity). Interacts with TLN1. Interacts with SYNM.,tissue specificity:Metavinculin is muscle-specific., |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |