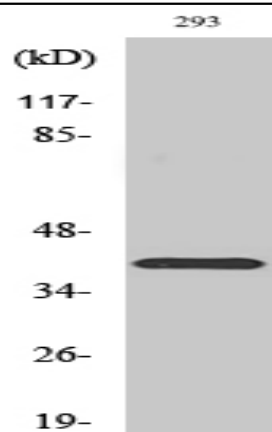


## CD298 Polyclonal Antibody

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT0745  |
| <b>Reactivity :</b>          | Human;Rat;Mouse;  |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | CD298   |
| <b>Fields :</b>              | >>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Insulin secretion;>>Thyroid hormone synthesis;>>Thyroid hormone signaling pathway;>>Aldosterone synthesis and secretion;>>Aldosterone-regulated sodium reabsorption;>>Endocrine and other factor-regulated calcium reabsorption;>>Proximal tubule bicarbonate reclamation;>>Salivary secretion;>>Gastric acid secretion;>>Pancreatic secretion;>>Carbohydrate digestion and absorption;>>Protein digestion and absorption;>>Bile secretion;>>Mineral absorption |
| <b>Gene Name :</b>           | ATP1B3  |
| <b>Protein Name :</b>        | Sodium/potassium-transporting ATPase subunit beta-3   |
| <b>Human Gene Id :</b>       | 483   |
| <b>Human Swiss Prot No :</b> | P54709  |
| <b>Mouse Swiss Prot No :</b> | P97370  |
| <b>Immunogen :</b>           | Synthesized peptide derived from Human N-terminal CD298 . at AA range: 60-140   |
| <b>Specificity :</b>         | CD298 Polyclonal Antibody detects endogenous levels of CD298 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.<br><br>The antibody was affinity-purified from rabbit antiserum by affinity-   |

|                               |   |
|-------------------------------|---|
| <b>Purification :</b>         | chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml   |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Observed Band :</b>        | 31kD  |
| <b>Cell Pathway :</b>         | Cardiac muscle contraction;Aldosterone-regulated sodium reabsorption;   |
| <b>Background :</b>           | <p>The protein encoded by this gene belongs to the family of Na<sup>+</sup>/K<sup>+</sup> and H<sup>+</sup>/K<sup>+</sup> ATPases beta chain proteins, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subun</p> |
| <b>Function :</b>             | <p>function:This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-3 subunit is not known.,similarity:Belongs to the X(+)/potassium ATPases subunit beta family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Composed of three subunits: alpha (catalytic), beta and gamma.,</p>  |
| <b>Subcellular Location :</b> | Apical cell membrane ; Single-pass type II membrane protein . Basolateral cell membrane ; Single-pass type II membrane protein . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.   |
| <b>Expression :</b>           | Lung,Placenta,Uterus,   |

## Products Images



Western Blot analysis of various cells using CD298 Polyclonal Antibody diluted at 1:1000