



CD298 Monoclonal Antibody

Catalog No	YP-mAb-16397
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ATP1B3
Immunogen	Synthesized peptide derived from Human N-terminal CD298 . at AA range: 60-140
Specificity	CD298 Monoclonal Antibody detects endogenous levels of CD298 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AT1B3_HUMAN;atp1b3;ATPase Na ⁺ /K ⁺ transporting beta 3 polypeptide;ATPB 3;ATPB-3;ATPB3;CD 298;CD298;CD298 antigen;FLJ2927;Na K ATPase beta 3 polypeptide;Na ⁺ /K ⁺ ATPase beta 3 subunit;NKAB3S;Sodium potassium ATPase subunit beta 3 (non catalytic);Sodium pump subunit beta 3;Sodium/potassium dependent ATPase beta 3 subunit;Sodium/potassium dependent ATPase subunit beta 3;Sodium/potassium transporting ATPase beta 3 chain;Sodium/potassium transporting ATPase subunit beta 3;Sodium/potassium-dependent ATPase subunit beta-3;Sodium/potassium-transporting ATPase subunit beta-3;CD antigen CD298
Observed Band	31kD
Calculated Molecular Weight	31kD
Cell Pathway	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.
Tissue Specificity	Lung,Placenta,Uterus,
Function	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.,

Background

The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -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⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subun

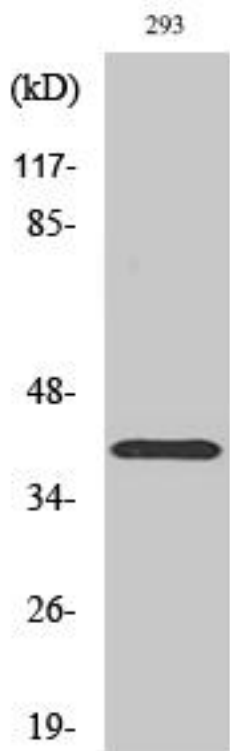
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CD298 Monoclonal Antibody