SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-C21orf33 antibody

Catalog Number: SL15124R

FOR RESEARCH USE ONLY

[DATASHEET]

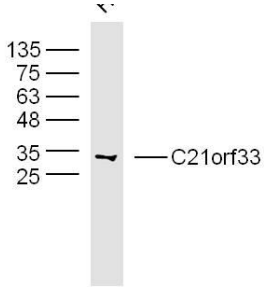
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	C21orf33
Immunogen:	KLH conjugated synthetic peptide derived from human C21orf33: 101-200/268
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Chicken,Dog,Pig)
Predicted MW.:	28kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	KNP-I is a ubiquitously expressed mitochondrial protein that belongs to the ES1 family of proteins. It is a highly conserved protein with homologs identified in various species. This conserved nature suggests an important biological role for the KNP-I protein. The gene that encodes KNP-I (C21orf33) is located on human chromosome 21 in close proximity to a region (D21S25) associated with many genetic diseases. Down syndrome (DS), caused by an extra copy of chromosome 21, is the most common manifestation of trisomic chromosomes. It is likely that the overproduction of the C21orf33 gene product plays a role in the pathology of DS, while its chromosomal location suggests its likely involvement in D21S25 related diseases. While

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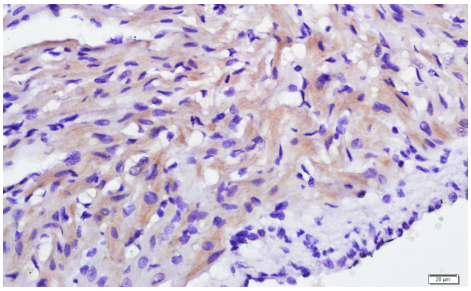
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	expressed in most tissue, highest expression of KNP-I is found in heart and muscle **Subcellular Location:** Mitochondrion (Potential). **Tissue Specificity:** Ubiquitous, but strongly expressed in heartand skeletal muscle. **Similarity:** Belongs to the ES1 family. **Database links:** **Entrez Gene:** 8209 Human Omim: 601659 Human **SwissProt:** P30042 Human **Unigene:** 413482 Human

[VALIDATION IMAGES]



Sample: Hela Cell (Human) Lysate at 40 ug
Primary: Anti-C21orf33 (SL15124R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 28 kD
Observed band size: 28 kD



Tissue/cell: Rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min;
Incubation: Anti-C21orf33 Polyclonal Antibody, Unconjugated(SL15124R) 1:500, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

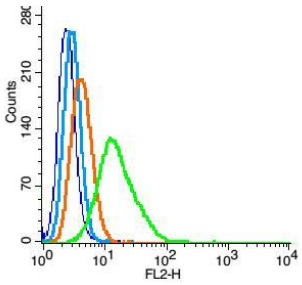
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Blank control: hela(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue),
Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1ug in 100 uL1X PBS containing 0.5% BSA(green).

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