Datasheet for ABIN390919

anti-NDUFS4 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	NDUFS4
Binding Specificity:	AA 131-160, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This NDUFS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-160 amino acids from the C-terminal region of human NDUFS4.
Clone:	RB21548
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	NDUFS4
Alternative Name:	NDUFS4 (NDUFS4 Products)
Background:	NDUFS4 is an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase(Complex I), or NADH:ubiquinone oxidoreductase, the first multi-subunit enzyme

Target Details

	complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane.
Molecular Weight:	20108
Gene ID:	4724
NCBI Accession:	NP_002486
UniProt:	O43181

Application Details

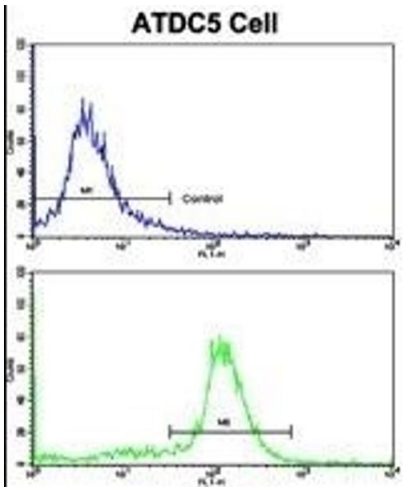
Application Notes:	WB: 1:2000. IHC-P-Leica: 1:250. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

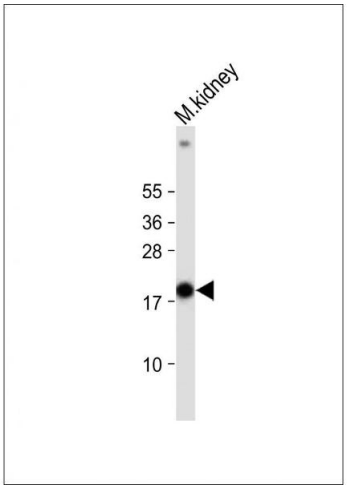
Publications

Product cited in:	Sadeghi, Ullenhag, Wagenius, Tötterman, Eriksson: "Rapid expansion of T cells: Effects of culture and cryopreservation and importance of short-term cell recovery." in: **Acta oncologica (Stockholm, Sweden)**, Vol. 52, Issue 5, pp. 978-86, (2013) (PubMed).



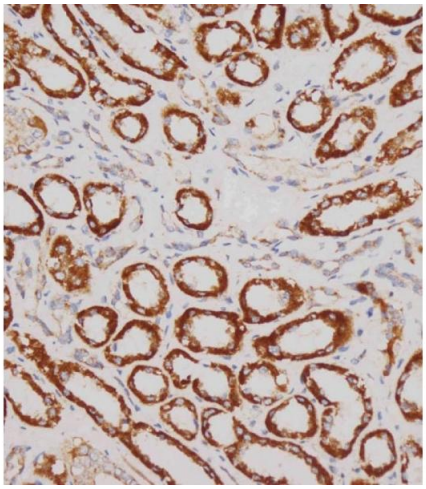
Flow Cytometry

Image 1. Flow cytometric analysis of ATDC5 cells using NDUFS4 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Anti-NDUFS4 Antibody (C-term) at 1:2000 dilution + Mouse kidney tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 20 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical analysis of (ABIN390919 and ABIN2841122) on paraffin-embedded human kidney tissue was performed on the Leica®BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH 9. 0). Samples were incubated with primary Antibody (1:250) for 15 min at room temperature. Leica Bond Polymer Refine Detection was used as the secondary antibody.