ARG57153
anti-COX5A antibody [7A6]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [7A6] recognizes COX5A
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	7A6
Isotype	IgG1, kappa
Target Name	COX5A
Species	Human
Immunogen	Recombinant fragment around aa. 42-150 of Human COX5A
Conjugation	Un-conjugated
Alternate Names	Cytochrome c oxidase subunit 5A, mitochondrial; VA; COX-VA; Cytochrome c oxidase polypeptide Va; COX

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

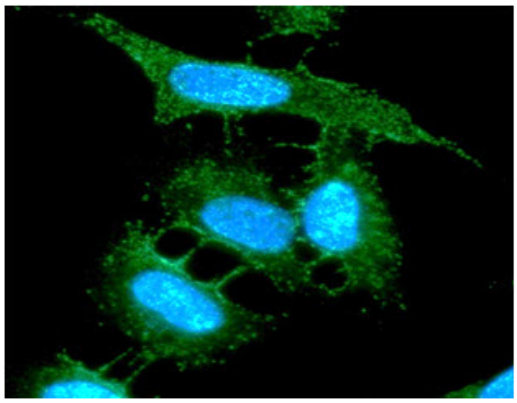
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 10598 Human Swiss-port # O95433 Human
Gene Symbol	COX5A
Gene Full Name	cytochrome c oxidase subunit Va
Background	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer of proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [provided by RefSeq, Jul 2008]
Function	This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. [UniProt]
Calculated Mw	17 kDa
Cellular Localization	Mitochondrion inner membrane. [UniProt]

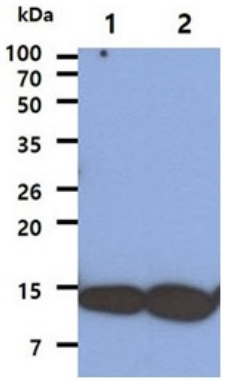
Images



ARG57153 anti-COX5A antibody [7A6] ICC/IF image

Immunofluorescence: HeLa cells line stained with ARG57153 anti-COX5A antibody [7A6] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57153 anti-COX5A antibody [7A6] WB image

Western blot: 40 µg of 1) A431, and 2) HeLa cell lysates stained with ARG57153 anti-COX5A antibody [7A6] at 1:1000.