NDUFS5 (E89) polyclonal antibody

Catalog: BS9154 Host: Rabbit Reactivity: Human

BackGround:

Located in the mitochondrial inner membrane, mitochondrial complex I is the first and largest enzyme in the electron transport chain of oxidative phosphorylation. By oxidizing NADH that is produced in the Krebs cycle, this complex utilizes the two electrons to reduce ubiquinone to ubiquinol, thereby initiating the passage of electrons to successive complexes and ultimately leading to the reduction of oxygen to water. Mitochondrial complex I consists of over 40 subunits and is of considerable clinical interest since defects in any of the subunits can lead to various myopathies and neuropathies. As a subunit of mitochondrial complex I, NDUFS5 (NADH dehydrogenase [ubiquinone] iron-sulfur protein 5), also designated NADH-ubiquinone oxidoreductase 15 kDa subunit, is a 106 amino acid protein that is suggested to not be involved in catalysis. NDUFS5 is expressed ubiquitously in human tissues, with a relative higher expression in human heart, skeletal muscle, liver, kidney and fetal heart.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 15 kDa

Swiss-Prot:

O43920

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

NDUFS5 (E89) polyclonal antibody detects endogenous levels of NDUFS5 protein.

DATA:

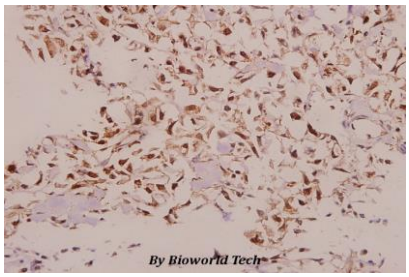
Western blot (WB) analysis of NDUFS5 (E89) pAb at 1:500 dilution

Lane1:SGC7901 whole cell lysate(40ug)

Lane2:MCF-7 whole cell lysate(40ug)

Lane3:A375 whole cell lysate(40ug)

Lane4:PC3 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of NDUFS5 (E89) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.

Note:

For research use only, not for use in diagnostic procedure.

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