

## Recombinant NDUFA1 Monoclonal Antibody

catalog number: AN300778L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

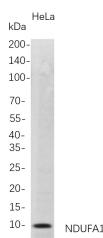
Reactivity	Human
Immunogen	Recombinant Human NDUFA1 protein
Host	Rabbit
Isotype	IgG,κ
Clone	B721
Purification	Protein A
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications

### Recommended Dilution

WB	1:1000-5000
IHC	1:100-300
IP	1:50-100

### Data



Western Blot with Recombinant NDUFA1 Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: HeLa whole cell lysate.

Observed-MW:8 kDa

### Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

### Background

The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function.

### For Research Use Only

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