# Recombinant UQCRFS1/RISP Monoclonal Antibody

**catalog number:** **AN301884L**

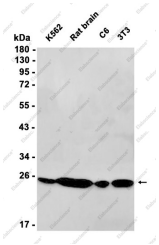
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse;Rat |
| **Immunogen** | A synthetic peptide of human RISP |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C111505 |
| **Purification** | Protein A purified |
| **Buffer** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:1000-1:5000 |
| **IHC-P** | 1:200-1:1000 |
| **ICC/IF** | 1:100 |
| **IP** | 1:50-1:100 |
| **FCM** | 1:200 |

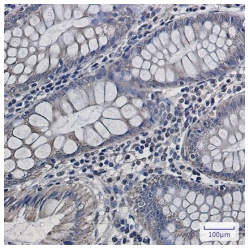
## Data



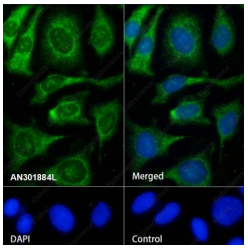

Western blot analysis of K562, C6, 3T3 and Rat brain cell lysates using UQCRFS1/RISP Antibody (AN301884L) at a dilution of 1:1000.

**Observed-MW:24 kDa**

**Calculated-MW:30 kDa**



Immunohistochemical analysis of paraffin-embedded Human colon sections using UQCRFS1/RISP Antibody (AN301884L).




Immunofluorescence analysis of HeLa cells using UQCRFS1/RISP Antibody(AN301884L). Nuclear DNA was labeled in blue with DAPI. Control: Secondary antibody only.

## Preparation & Storage

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

Ubiquinol-cytochrome c reductase iron-sulfur subunit (UQCRFS1), also known as Rieske iron-sulfur protein (RISP), is a component of Complex III in the mitochondrial electron transport chain. UQCRFS1/RISP and two other subunits, cytochrome b (MT-CYB) and cytochrome c1 (CYC1), are essential for the catalytic activity of Complex III. Studies show that UQCRFS1/RISP is required for fetal mouse hematopoietic stem cell differentiation and adult mouse hematopoietic stem cell quiescence. In addition, loss of UQCRFS1/RISP decreases the strength of T cell receptor (TCR) signaling, indicating that this protein is critical for optimal TCR signaling.


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