



## Rabbit Anti-IF3 antibody

SL11781R

<b>Product Name:</b>	IF3
<b>Chinese Name:</b>	Mitochondrion翻译起始因子3抗体
<b>Alias:</b>	Mitochondrial Translational Initiation Factor 3; DC38; IF 3; IF 3Mt; IF-3(Mt); IF-3Mt; IF3; IF3(mt); IF3M_HUMAN; IF3Mt; mitochondrial; Mt; MTIF3; Translation initiation factor IF 3, mitochondrial precursor; Translation initiation factor IF-3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	28kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Mitochondrial Translational Initiation Factor 3:121-220/278
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	IF3 is also known as MTIF3 (mitochondrial translational initiation factor 3), DC38, IF3(mt) or IF-3mt, and is a 278 amino acid protein that is localized to mitochondria. IF3 aids in the initiation of protein synthesis by binding the 28S ribosomal subunit, which is a protein synthesis initiation site. The 28S and 39S ribosomal structures are

subunits of the 55S ribosome, whose formation is favored in the absence of IF3, because IF3 allows the subunits to remain in their free form. Altered forms of IF3 may affect IF3's function, which could alter the availability of mitochondrial encoded proteins, leading to oxidative stress and possibly causing an increased susceptibility to Parkinson's disease. Polymorphism of the gene encoding IF3 is thought to be associated with Parkinson's disease.

**Function:**

IF-3 binds to the 28S ribosomal subunit and shifts the equilibrium between 55S ribosomes and their 39S and 28S subunits in favor of the free subunits, thus enhancing the availability of 28S subunits on which protein synthesis initiation begins.

**Subcellular Location:**

Mitochondrion.

**Similarity:**

Belongs to the IF-3 family.

**SWISS:**

Q9H2K0

**Gene ID:**

219402

**Database links:**

[Entrez Gene: 219402](#) Human

[SwissProt: Q9H2K0](#) Human

[Unigene: 534582](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.