



# EF-Tu Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-16154
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	TUFM
<b>Protein Name</b>	Elongation factor Tu mitochondrial
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TUFM. AA range:301-350
<b>Specificity</b>	EF-Tu Polyclonal Antibody detects endogenous levels of EF-Tu protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	TUFM; Elongation factor Tu; mitochondrial; EF-Tu; P43
<b>Observed Band</b>	50kD
<b>Cell Pathway</b>	Mitochondrion .
<b>Tissue Specificity</b>	Brain,Cajal-Retzius cell,Heart,Kidney,Liver,Lung,Placenta,P
<b>Function</b>	disease:Defects in TUFM are the cause of combined oxidative phosphorylation deficiency type 4 (COXPD4) [MIM:610678]. COXPD4 is characterized by neonatal lactic acidosis, rapidly progressive encephalopathy, severely decreased mitochondrial protein synthesis, and combined deficiency of mtDNA-related mitochondrial respiratory chain complexes.,function:This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.,similarity:Belongs to the GTP-binding elongation factor family. EF-Tu/EF-1A subfamily.,
<b>Background</b>	This gene encodes a protein which participates in protein translation in mitochondria. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency resulting in lactic acidosis and fatal encephalopathy. A pseudogene has been identified on chromosome 17. [provided by RefSeq, Jul 2008],



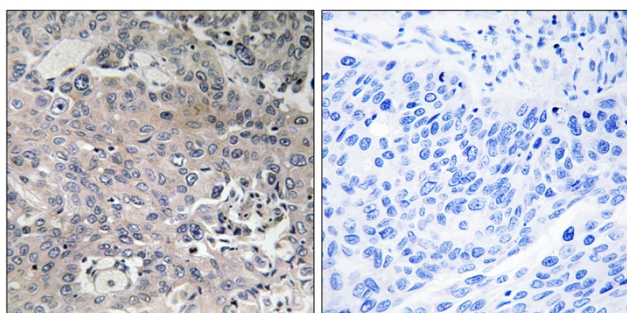
### matters needing attention

Avoid repeated freezing and thawing!

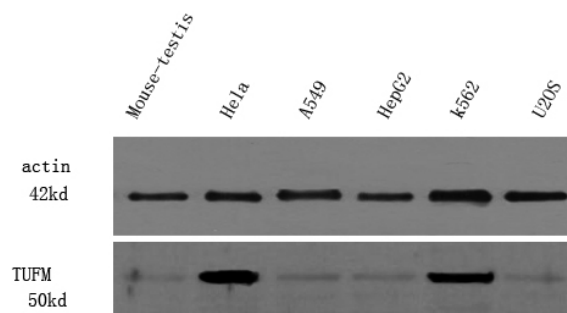
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using TUFM Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cell lysis. Primary Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS23920) was diluted at 1:10000