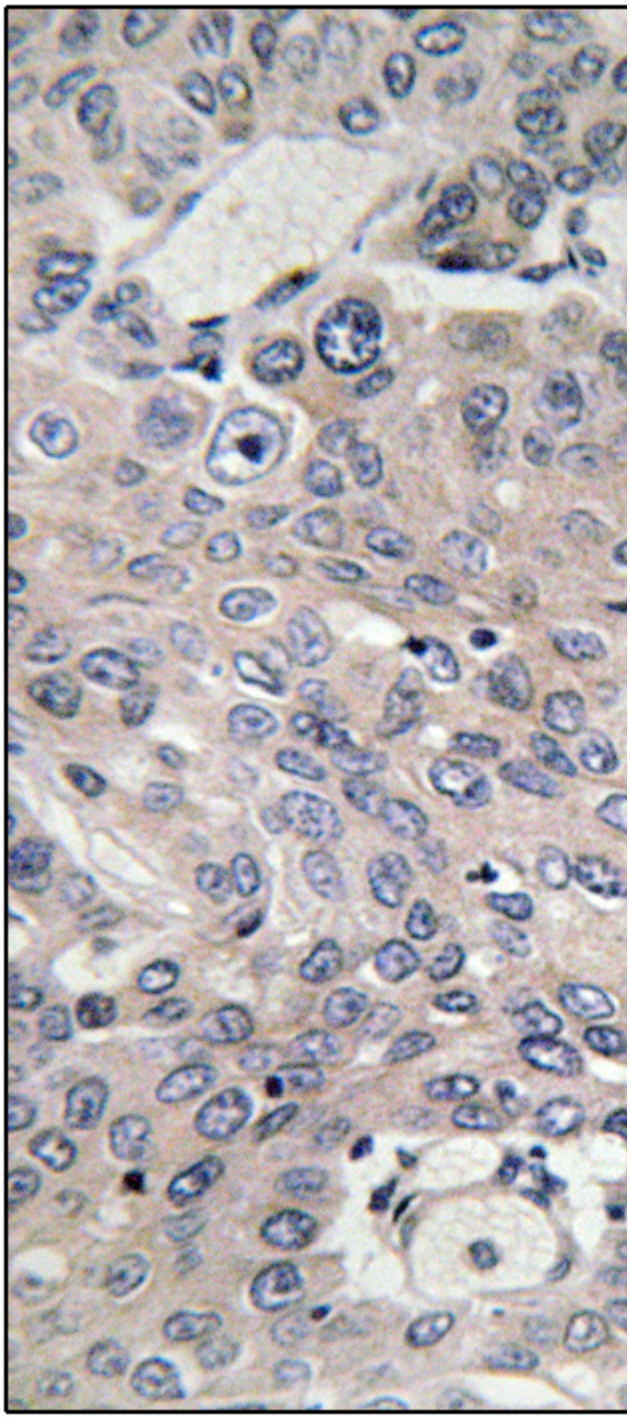
EF-Tu Polyclonal Antibody

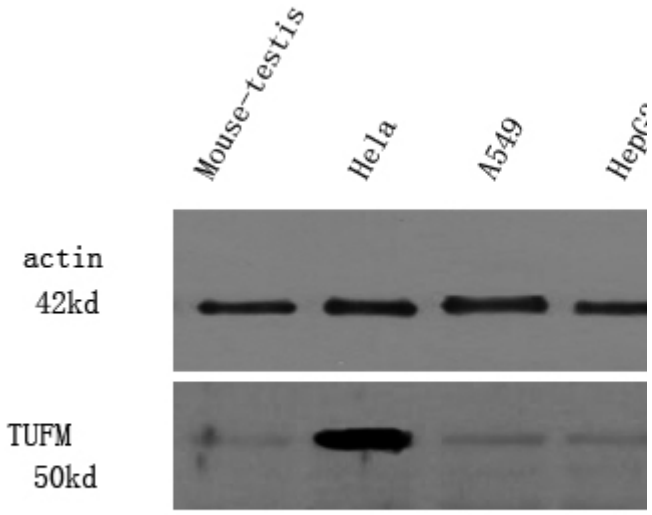
Catalog No	BYab-31770
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	TUFM
Protein Name	Elongation factor Tu mitochondrial
Immunogen	The antiserum was produced against synthesized peptide derived from human TUFM. AA range:301-350
Specificity	EF-Tu Polyclonal Antibody detects endogenous levels of EF-Tu protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TUFM; Elongation factor Tu; mitochondrial; EF-Tu; P43
Observed Band	50kD
Cell Pathway	Mitochondrion .
Tissue Specificity	Brain,Cajal-Retzius cell,Heart,Kidney,Liver,Lung,Placenta,P
Function	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.,
Background	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