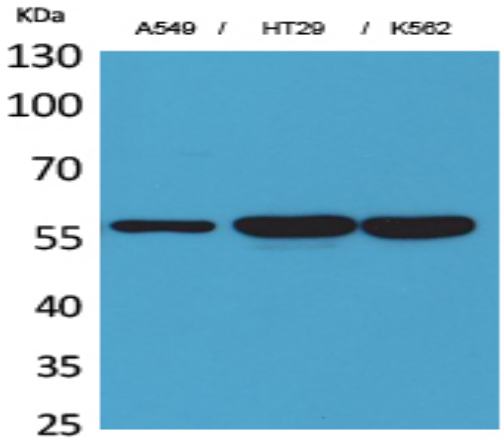
Best Tools for immunology Research

ERp57 Polyclonal Antibody

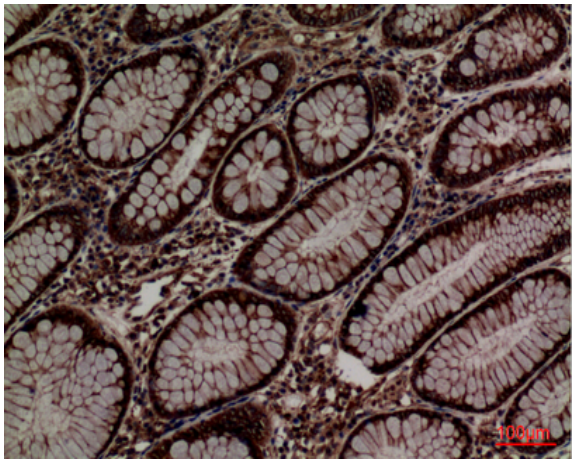
Catalog No :	YT5220
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	ERp57
Fields :	>>Protein processing in endoplasmic reticulum;>>Antigen processing and presentation;>>Human cytomegalovirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection
Gene Name :	PDIA3
Protein Name :	Protein disulfide-isomerase A3
Human Gene Id :	2923
Human Swiss Prot No :	P30101
Mouse Gene Id :	14827
Mouse Swiss Prot No :	P27773
Rat Gene Id :	29468
Rat Swiss Prot No :	P11598
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human PDIA3. AA range:111-160
Specificity :	ERp57 Polyclonal Antibody detects endogenous levels of ERp57 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution :	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	55kD
Cell Pathway :	Antigen processing and presentation;
Background :	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:Catalyzes the rearrangement of -S-S- bonds in proteins.,caution:Was originally thought to be a phosphatidylinositol-4,5-bisphosphate phosphodiesterase type I (phospholipase C-alpha).,mass spectrometry: PubMed:11840567,similarity:Belongs to the protein disulfide isomerase family.,similarity:Contains 2 thioredoxin domains.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Interacts with ERP27 and CANX.,
Subcellular Location :	Endoplasmic reticulum . Endoplasmic reticulum lumen . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545). .
Expression :	Detected in the flagellum and head region of spermatozoa (at protein level) (PubMed:20400973). Expressed in liver, stomach and colon (at protein level). Expressed in gastric parietal cells and chief cells (at protein level) (PubMed:24188822).

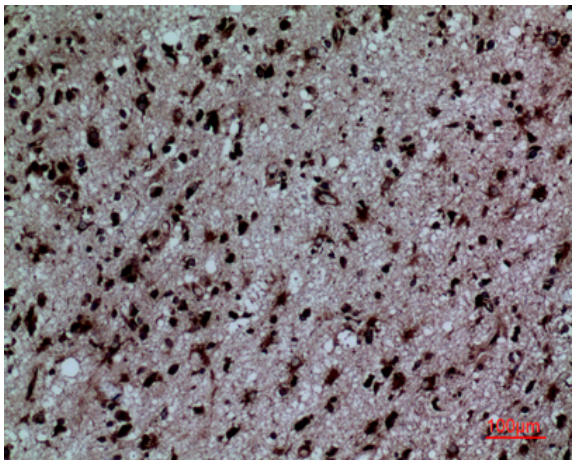
Products Images



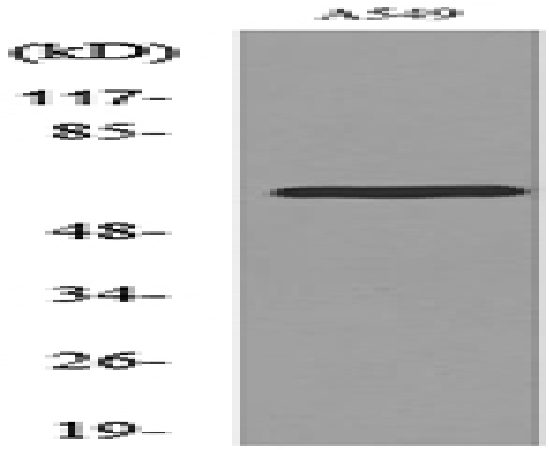
Western Blot analysis of A549, HT29, K562 cells using ERp57 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



Western blot analysis of lysate from A549 cells, using PDIA3 Antibody.