



# ERp57 Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-13978                                                                                                                                                                                                                                                                               |
| Isotype            | IgG                                                                                                                                                                                                                                                                                      |
| Reactivity         | Human;Mouse;Rat                                                                                                                                                                                                                                                                          |
| Applications       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                          |
| Gene Name          | PDIA3                                                                                                                                                                                                                                                                                    |
| Protein Name       | Protein disulfide-isomerase A3                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                   |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                    |
| Dilution           | WB: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                        |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                  |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                     |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                             |
| Synonyms           | PDIA3; ERP57; ERP60; GRP58; Protein disulfide-isomerase A3; 58 kDa glucose-regulated protein; 58 kDa microsomal protein; p58; Disulfide isomerase ER-60;Endoplasmic reticulum resident protein 57; ER protein 57; ERp57; Endoplasmic reticulum resident protein 60; ER protein 60; ERp60 |
| Observed Band      | 55kD                                                                                                                                                                                                                                                                                     |
| Cell Pathway       | Endoplasmic reticulum . Endoplasmic reticulum lumen . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545). .                                                                                                                 |
| Tissue Specificity | 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).                                       |
| 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           |

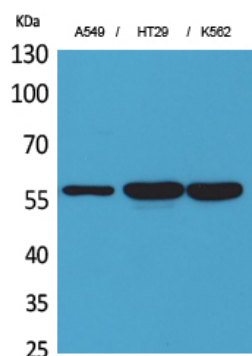
Nanjing BYabscience technology Co.,Ltd



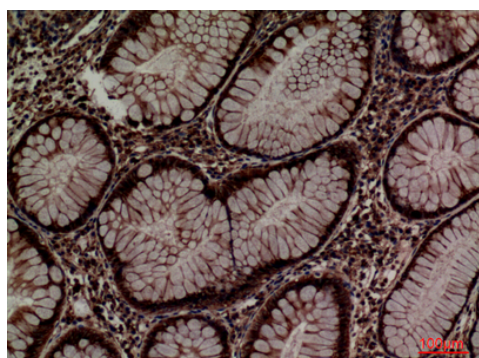
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|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | 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.,                                                                                                                                                                                                                                                                                                                   |
| <b>Background</b>                | 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], |
| <b>matters needing attention</b> | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Usage suggestions</b>         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                                       |



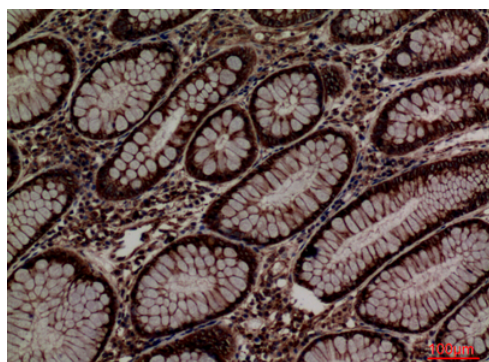
## Products Images



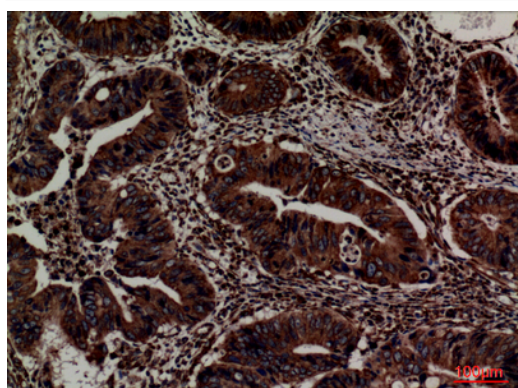
Western Blot analysis of A549, HT29, K562 cells using ERp57 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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



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



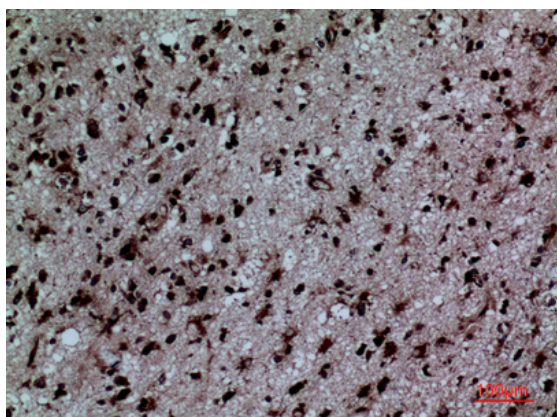
Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:100

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