

## Rabbit ATP7A Polyclonal Antibody | anti-ATP7A antibody

ATP7A antibody - N-terminal region

| CATALOG # | HOST   | REACTIVITY                                     | APPLICATIONS |
|-----------|--------|------------------------------------------------|--------------|
| AAA197661 | Rabbit | Cow, Dog, Horse, Human, Mouse, Pig, Rat, Sheep | Western Blot |

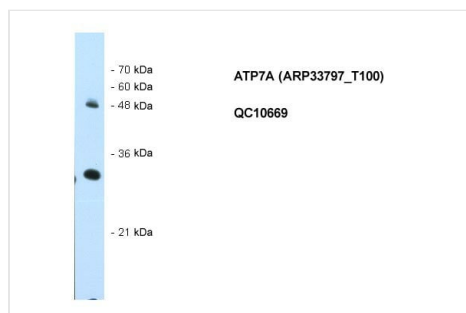
### PRODUCT SYNONYMS

ATP7A; Polyclonal Antibody; ATP7A antibody - N-terminal region; anti-ATP7A antibody

### PRODUCT SPECIFICATIONS

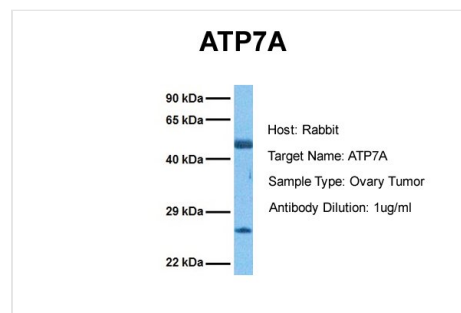
|                                                 |                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                            |
| Reactivity                                      | Cow, Dog, Horse, Human, Mouse, Pig, Rat, Sheep                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                                        |
| Specificity                                     | The immunizing peptide used to raise this antibody is 100% homologous to isoform 3 (503aa 54.3kDa), 1 (1514aa, 165kDa), 2 (1581aa, 172kDa) and 5 (1422aa, 154kDa) of human ATP7A. |
| Purity/Purification                             | Protein A purified                                                                                                                                                                |
| Form/Format                                     | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                 |
| Sequence                                        | Synthetic peptide located within the following region: MK KQIEAMGFPA FVKKQPKYLK LGAIDVERLK NTPVKSSEGS QQRSPSYQ                                                                    |
| Sequence Length                                 | 1500                                                                                                                                                                              |
| Applicable Applications for anti-ATP7A antibody | WB (Western Blot)                                                                                                                                                                 |
| Homology                                        | Cow: 93%; Dog: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rat: 100%; Sheep: 100%                                                                                     |
| Immunogen                                       | The immunogen is a synthetic peptide directed towards the N terminal region of human ATP7A                                                                                        |
| Preparation and Storage                         | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                             |

### IMAGES



WB (Western Blot)

WB Suggested Anti-ATP7A Antibody Titration: 0.5ug/ml Positive Control: HepG2 cell lysate



WB (Western Blot)

Host: Rabbit Target Name: ATP7A Sample Tissue: Human Ovary Tumor Antibody Dilution: 1.0ug/ml

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATP7A antibody | <p>This is a rabbit polyclonal antibody against ATP7A. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: The ATP7A gene encodes the Menkes copper-translocating P-type ATPase, a ubiquitous protein that regulates the absorption of copper in the gastrointestinal tract. Inside cells, this protein has a dual function: it delivers copper to cuproenzymes in the Golgi compartment and effluxes excess copper. The trafficking mechanism and catalytic activity combine to facilitate absorption and intercellular transport of copper. Menkes disease, a systemic copper deficiency disorder, is caused by mutations in the ATP7A gene.</p> |
| Product Categories/Family for anti-ATP7A antibody   | Polyclonal; Drugs and Drug Metabolism; E3 & Ubiquitin; Disease Related; Phosphorylation; Cell Differentiation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 115529486                        |
| NCBI GeneID                      | 538                              |
| NCBI Accession #                 | NP_000043                        |
| NCBI GenBank Nucleotide #        | NM_000052.5                      |
| UniProt Accession #              | Q04656                           |
| Molecular Weight                 | 163kDa                           |
| NCBI Official Full Name          | copper-transporting ATPase 1     |
| NCBI Official Synonym Full Names | ATPase copper transporting alpha |
| NCBI Official Symbol             | ATP7A                            |
| NCBI Official Synonym Symbols    | MK; MNK; DSMAX; SMAX3            |
| NCBI Protein Information         | copper-transporting ATPase 1     |
| UniProt Protein Name             | Copper-transporting ATPase 1     |
| UniProt Gene Name                | ATP7A                            |
| UniProt Synonym Gene Names       | MC1; MNK                         |
| UniProt Entry Name               | ATP7A_HUMAN                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.