

**KI antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11015****Specification**

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**KI antibody - N-terminal region - Product Information**

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Application       | WB                                                    |
| Primary Accession | <a href="#">O35082</a>                                |
| Other Accession   | <a href="#">NM_013823</a> , <a href="#">NP_038851</a> |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine         |
| Predicted         | Human, Mouse, Rat, Rabbit, Pig, Chicken, Bovine       |
| Host              | Rabbit                                                |
| Clonality         | Polyclonal                                            |
| Calculated MW     | 116kDa KDa                                            |

**KI antibody - N-terminal region - Additional Information****Gene ID** 16591

|                                      |          |
|--------------------------------------|----------|
| Alias Symbol                         | alpha-kl |
| <b>Other Names</b>                   |          |
| Klotho, 3.2.1.31, Klotho peptide, KI |          |

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-KI antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

KI antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**KI antibody - N-terminal region - Protein Information****Name** KI**Function**

May have weak glycosidase activity towards glucuronylated steroids. However, it lacks essential active site Glu residues at positions 241 and 874, suggesting it may be inactive as a glycosidase in vivo. May be involved in the regulation of calcium and phosphorus homeostasis by inhibiting the synthesis of active vitamin D. Essential factor for the specific interaction between FGF23 and FGFR1.

**Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Apical cell membrane; Single-pass type I membrane protein. Note=Isoform 1 shedding leads to a soluble peptide. [Klotho peptide]: Secreted

#### **Tissue Location**

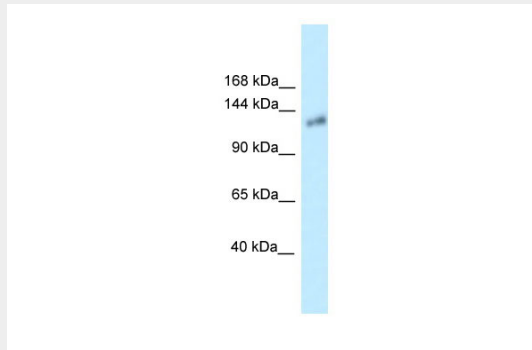
Membrane-bound protein is present in distal renal tubules, inner ear, ependymal cells of brain choroid plexus, elongating spermatids and mature oocytes (at protein level). Soluble peptide is present in serum (100 pM) and cerebrospinal fluid. Expressed strongly in kidney, moderately in brain choroid plexus, and at low levels in pituitary, placenta, skeletal muscle, urinary bladder, aorta, pancreas, testis, ovary, colon, thyroid gland and adipocytes

#### **KI antibody - N-terminal region - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **KI antibody - N-terminal region - Images**



WB Suggested Anti-KI Antibody Titration: 1.0 µg/ml

Positive Control: Mouse Small Intestine