

Product datasheet

Native Dog UMOD protein ab168879

1 Image

Description

**Product name** Native Dog UMOD protein

**Purity** > 95 % SDS-PAGE.

**Endotoxin level** < 1.000 Eu/μg

**Expression system** Native

**Accession** [Q862Z3](#)

**Protein length** Full length protein

**Animal free** No

**Nature** Native

**Species** Dog

**Sequence**

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RSCSECHSNA TCMEDGMVTT CSCLVGFTGS
GFECVDLDEC AIPGAHNCSE GSSCMNTLGS
YLCTCPDGFR LTPGLGCIDV DECSEPGLSR
CHALATCINN KGNYSVCVCPA GYRGDQQHCE
CSPGSCGPGL DCVPVGDALV CADPCQEHRI
LDEYWRSTEY GAGYTCDVGL NGWYRFTGPG
GVRLAETCVP VLHCNTAAPM WLNTHPTRD
QGIVNRTACA HWRGHCCCLWD ASIQVKACAG
GYVYNLTET PECYLAYCTD PTSVLGTCEE
CSVEEDCKSH DGMWSCQCKQ DFNVTDLFLL
DRLECRPNDI KVSLSKCQLK SLGFEKVFMY
LRDSQC SGFN ERGDRDWVSV VTPARDGPCG
TVMVRNETHA TYSNTLYLAD EMIRDRNIK INFEC SYPLD
MKVSLETSLQ PIVSSLNISV GGTGMFTVRM
ALFQTPDYTQ PYQGSSVTLT TEAFLYVGTM
LDGGDL SRFA LLMTNCYATP SSNATDPLKY FIIQDRCPRT
TDSTIQVVEN GESPPQGRFSV QMFRFAGNYD
LVYLHCEVYL CDIINEKCKP TCSGTRFRS GGIIDQSRVLN
LGPITRKNVQ AVVSRAASS
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**Predicted molecular weight** 64 kDa

**Amino acids** 32 to 620

**Additional sequence information** Source = Canine urine

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab168879** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA SDS-PAGE Mass Spectrometry
<b>Mass spectrometry</b>	LC-MS/MS
<b>Form</b>	Lyophilized
<b>Additional notes</b>	Previously labelled as Uromucoid.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -80°C. Constituent: 100% Water
<b>Reconstitution</b>	Add 200 µl deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in cell culture.

## General Info

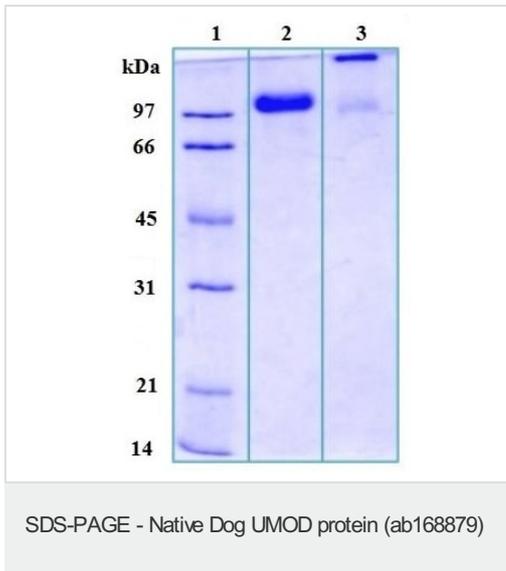
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<b>Function</b>	Not known. May play a role in regulating the circulating activity of cytokines as it binds to IL-1, IL-2 and TNF with high affinity.
<b>Tissue specificity</b>	Synthesized by kidney. Most abundant protein in normal human urine.
<b>Involvement in disease</b>	Defects in UMOD are the cause of familial juvenile hyperuricemic nephropathy type 1 (HNFJ1) [MIM:162000]. HNFJ1 is a renal disease characterized by juvenile onset of hyperuricemia, polyuria, progressive renal failure, and gout. The disease is associated with interstitial pathological changes resulting in fibrosis. Defects in UMOD are the cause of medullary cystic kidney disease type 2 (MCKD2) [MIM:603860]. MCKD2 is a form of tubulointerstitial nephropathy characterized by formation of renal cysts at the corticomedullary junction. It is characterized by adult onset of impaired renal function and salt wasting resulting in end-stage renal failure by the sixth decade. Defects in UMOD are the cause of glomerulocystic kidney disease with hyperuricemia and isosthenuria (GCKDHI) [MIM:609886]. GCKDHI is a renal disorder characterized by a cystic dilation of Bowman space, a collapse of glomerular tuft, and hyperuricemia due to low fractional excretion of uric acid and severe impairment of urine concentrating ability.
<b>Sequence similarities</b>	Contains 3 EGF-like domains. Contains 1 ZP domain.
<b>Cellular localization</b>	Cell membrane. Secreted. Secreted after cleavage in the urine.

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## Images

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12% SDS-PAGE analysis of ab168879 stained with Coomassie Brilliant Blue G250.

Lane 1: MWt marker

Lane 2: reduced and heated sample, 2.5 µg

Lane 3: non-reduced and non-heated sample, 2.5 µg

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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