

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Uromodulin in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human Uromodulin is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 774056
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Uromodulin Ser24-Ala618 Accession # Q91X17
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Uromodulin (also Tamm-Horsfall glycoprotein or THP) is a 105-120 kDa urinary glycoprotein. It is secreted by renal tubule epithelium, acts as a binding protein for IL-1, TNF-α and C1q, activates resting monocytes, and promotes neutrophil phagocytosis. Uromodulin forms high molecular weight oligomers that line the kidney tubules. Mouse Uromodulin is GPI-linked. Its propeptide is 619 amino acids (aa) in length. It contains three EGF-like domains (aa 28-148), a ZP domain that mediates oligomerization (aa 335-590), and a cleavable C-terminal propeptide (aa 619-642). There are multiple splice variants. One shows an alternate start site at Met343, and there are two substitutions, a 17 aa substitution for aa 601-642, and a 166 aa substitution for aa 441-642. Over aa 25-618, mouse Uromodulin shares 78% and 89% aa identical to human and rat Uromodulin, respectively.

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