

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human or mouse Pro Meprin β Subunit/MEP1B in Western blots. It does not react with the mature form.
Source	Monoclonal Rat IgG _{2A} Clone # 289703
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human Meprin β Subunit/MEP1B Thr23-Ser593 Accession # Q16820
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Meprins are multimeric proteases composed of α and β subunits, which are members of the astacin family of zinc endopeptidases (1, 2). Both subunits form disulfide-linked homo- or heterooligomers, which are also referred to as Meprin A (composed of α subunits with or without β subunits) and Meprin B (composed of β subunits only) (3). Although the two subunits share 42% identity in their amino acid sequence, they differ significantly in their oligomeric structure, post-translational processing and subsequently cellular location, and substrate and peptide bond specificity (4). The 701 aa sequence of the human Meprin β subunit precursor consists of a signal peptide (aa 1 - 21), a pro region (aa 22 - 61), and a mature chain (aa 62 - 701) containing the following domains: catalytic (aa 62 - 259), MAM (aa 260 - 429), MATH (aa 430 - 585), EGF-like (aa 604 - 644), transmembrane (aa 653 - 673), and cytoplasmic (aa 674 - 701).

PRODUCT SPECIFIC NOTICES

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