

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ECE-2 in direct ELISAs and Western blots. In Western blots, 30% cross-reactivity with recombinant human (rh) ECE-1 and no cross-reactivity with rhKELL is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 233914
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ECE-2 Val104-Leu787 Accession # O60344
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.
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

ECE-2 is a zinc protease of the neprilysin (NEP) family, which also includes ECE-1, PEX, XCE, DINE, Kell and several NEP-like proteins (1). ECE-2 is a type II transmembrane protein with a short cytoplasmic tail and a large ectodomain. Three alternatively spliced forms differ in their cytoplasmic tail (2). In addition to big endothelin-1, ECE-2 cleaves a variety of bioactive peptides such as bradykinin, neurotensin, angiotensin I, substance P, dynorphin B, proenkephalin-derived peptides such as peptide E, BAM 22 and BAM18, and PEN-LEN, an endogenous inhibitor of prohormone convertase 1 (3). Together with ECE-1, it is also involved in degradation of β -amyloid peptide (4). The ectodomain of human ECE-2 was expressed with an N-terminal His tag and purified.

PRODUCT SPECIFIC NOTICES

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