

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAM23 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 504425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAM23 Ser60-His585 Accession # O75077
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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

ADAM23 (a disintegrin and metalloprotease domain 23; also MDC3) is a 100 kDa member of the M12B peptidase family of enzymes. It is expressed on fetal neurons in the hippocampus and cerebellum, and serves as a counter-receptor for $\alpha_5\beta_3$ integrin. The human ADAM23 precursor is a 773 amino acid (aa) type I transmembrane (TM) protein. It contains a 227 aa cleavable proregion (aa 60-286) and a 506 aa extracellular domain (ECD) (aa 287-792) that is part of a 70 kDa mature molecule. The ECD contains a nonfunctional metalloprotease domain (aa 299-494), an integrin-binding disintegrin region (aa 511-585), and a Cys-rich domain (aa 589-611). Two splice variants exist. One shows an in-frame 46 aa substitution for aa 787-832 that generates a soluble form, while a second shows an in-frame 31 aa TM substitution for aa 787-817. Over aa 60-585, human ADAM23 shares 92% aa sequence identity with mouse ADAM23.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.