

Human ADAM9 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 138537 Catalog Number: FAB939T

100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ADAM9 Ectodomain in Western blots. In Western blots, approximately 10% cross-reactivity with the ectodomain of recombinant mouse ADAM9 is observed and no cross-reactivity with the ectodomain of recombinant human ADAM8, 9, 15, or 17		
Source	Monoclonal Mouse IgG ₁ Clone # 138537		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ADAM9 Ectodomain Accession # Q13443		
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.		

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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.

Immunoprecipitation 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

ADAM9, also known as MDC9 or meltrin γ , is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain (1). Like other membrane-anchored ADAMs, ADAM9 consists of a pro domain with a cysteine switch and furin cleavage sequence, a catalytic domain with the zinc-binding site and Met-turn expected for reprolysins, a disintegrin-like domain, a cysteine-rich domain, an EGF-like domain, a transmembrane domain, and the cytoplasmic domain. ADAM9 is able to cleave peptides corresponding to cleavage sites of tumor necrosis factor- α (TNF- α), the p75 TNF receptor, the β -amyloid protein precursor, and the c-kit ligand-1, implying that it may participate in shedding of these membrane proteins (2). In fact, ADAM9 has been shown to shed membrane-anchored heparin-binding EGF-like growth factor (3). In addition, it also cleaves oxidized insulin β -chain and fibronectin (2,4). Besides its catalytic activity, ADAM9 functions as an adhesion molecule through binding of its disintegrin domain to integrins such as $\alpha_i \beta_5$ and $\alpha_6 \beta_1$ (5, 6). The cytoplasmic domain of ADAM9 interacts with Src homology 3 (SH3)-containing proteins and protein kinase C, and may mediate different signaling pathways (3, 7). ADAM9 is widely expressed in tissues (8).

PRODUCT SPECIFIC NOTICES

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