

## Product datasheet for **AM31879PU-N**

### ADAM9 / MDC9 Rat Monoclonal Antibody [Clone ID: 7D10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	7D10
Applications:	WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Purified Recombinant Mouse ADAM9 extracellular domain.
Specificity:	This antibody detects both ADAM9 and ADAM15 in Western blotting.
Formulation:	0.2 µm filtered PBS solution State: Purified State: Lyophilized purified IgG fraction of of Culture Supernatant Stabilizer: None
Reconstitution Method:	Restore with 200 µl sterile PBS and the final concentration is 500 µg/ml.
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	a disintegrin and metallopeptidase domain 9 (meltrin gamma)
Database Link:	<a href="#">Entrez Gene 11502 Mouse</a> <a href="#">Q61072</a>



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**Background:**

ADAM9, also known as MDC9 or meltrin  $\gamma$ , is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain. 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 Metturn expected for reprotolysins, 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  $\alpha$  (TNF $\alpha$ ), the p75 TNF receptor, the  $\beta$ -amyloid protein precursor, and the c-kit ligand1, implying that it may participate in shedding of these membrane proteins. In fact, ADAM9 has been shown to shed membrane-anchored heparin-binding EGF-like growth factor. In addition, it also cleaves oxidized insulin B-chain and fibronectin. Besides its catalytic activity, ADAM9 functions as an adhesion molecule through binding of its disintegrin domain to integrins such as  $\alpha\beta$ 5 and  $\alpha$ 6 $\beta$ 1. The cytoplasmic domain of ADAM9 interacts with Src homology 3 (SH3)containing proteins and protein kinase C, and may mediate different signaling pathways. ADAM9 is widely expressed in tissues.

**Synonyms:**

KIAA0021, MCMP, MLTNG, Meltrin gamma