

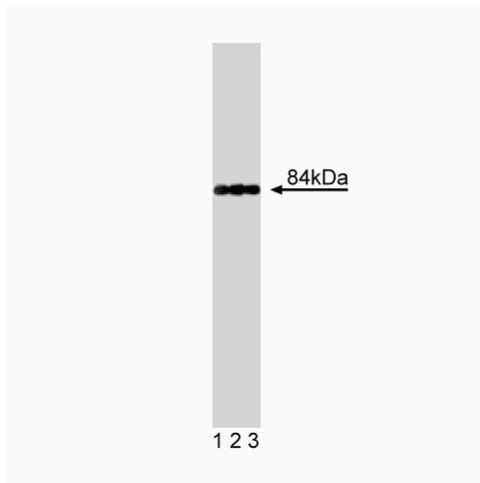
## Technical Data Sheet

**Purified Mouse Anti-ADAM9****Product Information**

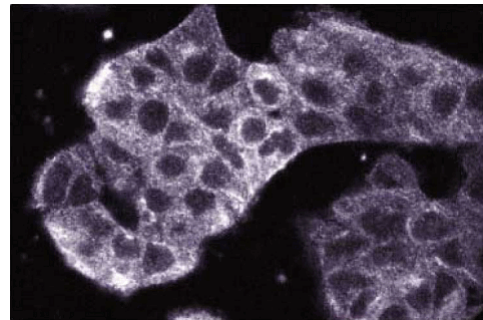
<b>Material Number:</b>	<b>610750</b>
<b>Alternate Name:</b>	MDC9; A Disintegrin And Metalloprotease-9
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	15/ADAM9
<b>Immunogen:</b>	Human MDC9 aa. 86-227
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Mouse, Rat
<b>Target MW:</b>	84 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

**Description**

MDC9 (metalloprotease/disintegrin/cysteine-rich protein 9) belongs to a family of cellular disintegrins known as ADAM (A Disintegrin And Metalloprotease domain). The ADAM proteins are involved in cell-cell and cell-matrix adhesion and, possibly, the degradation of the extracellular matrix. All members possess: 1) a prodomain; 2) a metalloprotease-, disintegrin-, and EGF-like region; 3) a cysteine-rich region; 4) a transmembrane domain; and 5) a cytoplasmic domain. In addition to these regions, MDC9 contains two cytoplasmic proline-rich sequences that may bind to the SH3 domains of cytoskeletal or signaling proteins. MDC9 also contains a membrane-bound metalloprotease and disintegrin domain, suggesting multifunctional activity. Immunofluorescence staining demonstrated that MDC9 is located at the plasma membrane. MDC9 human and mouse protein sequence share 82% identity and are ubiquitously expressed.



**Western blot analysis of ADAM9 on a human endothelial cell lysate.** Lane 1: 1:250, lane 2: 1:500, lane 3: 1: 1000 dilution of the mouse anti-ADAM9 antibody.



**Immunofluorescence staining of A431 cells (Human epithelial carcinoma; ATCC CRL-1555).**

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

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## Application Notes

### Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

### Recommended Assay Procedure:

**Western blot:** Please refer to [http://www.bdbiosciences.com/pharming/en/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml)

### Suggested Companion Products

Catalog Number	Name	Size	Clone
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

### References

Weskamp G, Kratzschmar J, Reid MS, Blobel CP. MDC9, a widely expressed cellular disintegrin containing cytoplasmic SH3 ligand domains. *J Cell Biol.* 1996; 132(4):717-726.(Biology)

Wolfsberg TG, Primakoff P, Myles DG, White JM. ADAM, a novel family of membrane proteins containing A Disintegrin And Metalloprotease domain: multipotential functions in cell-cell and cell-matrix interactions. *J Cell Biol.* 1995; 131(275):278.(Biology)