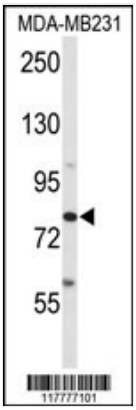
ADAM9 Antibody – Rabbit Polyclonal

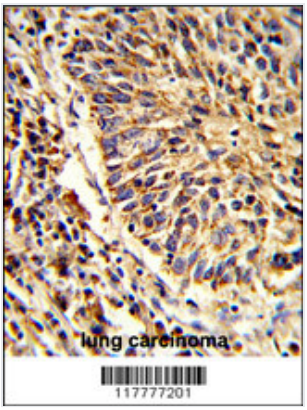
PRODUCT OVERVIEW

Product Name	ADAM9, Polyclonal Antibody
Full Product Name	ADAM9 Antibody (C-term)
Product Gene Name	anti-ADAM9 antibody
Product Synonym Names	Disintegrin and metalloproteinase domain-containing protein 9; ADAM 9; 3424-; Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma cell metalloproteinase; ADAM9; KIAA0021; MCMP; MDC9; MLTNG
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This ADAM9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 704-733 amino acids from the C-terminal region of human ADAM9.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ADAM9 peptide (MBS9226889) is used for blocking the activity of ADAM9 antibody (MBS9204211)
Molecular Weight	90556
Immunogen Sequence Positions	704-733
OMIM	602713
3D Structure	ModBase 3D Structure for Q13443
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ADAM9 antibody	Cancer; Cell Biology; Signal transduction
Applications Tested/Suitable for anti-ADAM9 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-ADAM9 antibody	WB~~1:1000
Related Product Information for anti-ADAM9 antibody	ADAM9 is a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This protein interacts with SH3 domain-containing proteins, binds mitotic arrest deficient 2 beta protein, and is also involved in TPA-induced ectodomain shedding of membrane-anchored heparin-binding EGF-like growth factor.

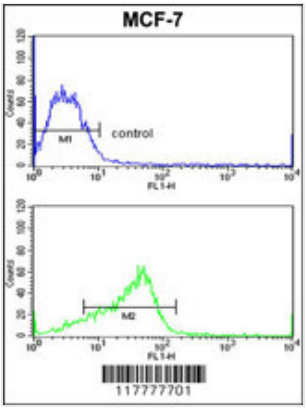
Product References and Citations for anti-ADAM9 antibody	Weskamp G., Kraetzschmar J., Reid M.S.J. Cell Biol. 132:717-726(1996) Hotoda N., Koike H.Biochem. Biophys. Res. Commun. 293:800-805(2002) McKie N., Edwards T., Dallas D.J.Biochem. Biophys. Res. Commun. 230:335-339(1997)
Other Notes	Small volumes of anti-ADAM9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADAM9 purchase	MBS9204211 is an antibody targeting ADAM9. Also known as ADAM9 Antibody (C-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ADAM9 antibody
Western blot analysis of ADAM9 Antibody (C-term) in MDA-MB231 cell line lysates (35ug/lane). ADAM9 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ADAM9 antibody
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with ADAM9 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-ADAM9 antibody
ADAM9 Antibody (C-term) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAM9. It may not necessarily be applicable to this product.

NCBI GI #	4501915
NCBI GeneID	8754
NCBI Accession #	NP_003807.1
UniProt Primary Accession #	Q13443
UniProt Secondary Accession #	Q10718; Q8NFM6; B7ZLN7
UniProt Related Accession #	Q13443

GenBank Nucleotide #	NM_003816.2
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 9
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 9
NCBI Official Symbol	ADAM9
NCBI Official Synonym Symbols	MCMP; MDC9; CORD9; Mltng
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 9
UniProt Synonym Protein Names	Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma cell metalloproteinase
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM9
UniProt Synonym Gene Names	KIAA0021; MCMP; MDC9; MLTNG; ADAM 9
UniProt Entry Name	ADAM9_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 9
NCBI Summary for ADAM9	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene interacts with SH3 domain-containing proteins, binds mitotic arrest deficient 2 beta protein, and is also involved in TPA-induced ectodomain shedding of membrane-anchored heparin-binding EGF-like growth factor. Several alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2010]
UniProt Comments for ADAM9	ADAM9: Probable zinc protease. May mediate cell-cell or cell- matrix interactions. Isoform 2 displays alpha-secretase activity for APP. Widely expressed. Expressed in chondrocytes. Isoform 2 is highly expressed in liver and heart. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.4.24.-; Motility/polarity/chemotaxis; Protease Chromosomal Location of Human Ortholog: 8p11.22 Cellular Component: extracellular space; cell surface; focal adhesion; basolateral plasma membrane; cytoplasm; integral to membrane Molecular Function: collagen binding; integrin binding; protein binding; protein kinase C binding; metallopeptidase activity; zinc ion binding; metalloendopeptidase activity; laminin binding; SH3 domain binding Biological Process: integrin-mediated signaling pathway; positive regulation of keratinocyte migration; extracellular matrix organization and biogenesis; activation of MAPKK activity; cell-matrix adhesion; membrane protein ectodomain proteolysis; response to glucocorticoid stimulus; positive regulation of cell adhesion mediated by integrin; positive regulation of membrane protein ectodomain proteolysis; keratinocyte differentiation; response to manganese ion; extracellular matrix disassembly; collagen catabolic process; PMA-inducible membrane protein ectodomain proteolysis; response to hydrogen peroxide; positive regulation of protein secretion; monocyte activation; transforming growth factor beta receptor signaling pathway; cell-cell adhesion mediated by integrin; cell adhesion mediated by integrin; response to calcium ion; cell adhesion Disease: Cone-rod Dystrophy 9
Research Articles on ADAM9	**1.** Given the significant correlation between tumor ADAM9 expression and serum RCAS1 concentration in both cervical and endometrial cancer as well as the role for ADAM9 in RCAS1 shedding.
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