



# ADA15 Monoclonal Antibody

Catalog No	BYmab-07116
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	ADAM15 MDC15
Protein Name	Disintegrin and metalloproteinase domain-containing protein 15 (ADAM 15) (EC 3.4.24.-) (Metalloprotease RGD disintegrin protein) (Metalloproteinase-like, disintegrin-like, and cysteine-rich protein 15
Immunogen	Synthesized peptide derived from human protein . at AA range: 50-130
Specificity	ADA15 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	94kD
Cell Pathway	Endomembrane system ; Single-pass type I membrane protein . Cell junction, adherens junction . Cell projection, cilium, flagellum . Cytoplasmic vesicle, secretory vesicle, acrosome . The majority of the protein is localized in a perinuclear compartment which may correspond to the trans-Golgi network or the late endosome. The pro-protein is the major detectable form on the cell surface, whereas the majority of the protein in the cell is processed (By similarity). .
Tissue Specificity	Expressed in colon and small intestine. Expressed in airway smooth muscle and glomerular mesangial cells (at protein level). Ubiquitously expressed. Overexpressed in atherosclerotic lesions. Constitutively expressed in cultured endothelium and smooth muscle. Expressed in chondrocytes. Expressed in airway smooth muscle and glomerular mesangial cells.
Function	cofactor: Binds 1 zinc ion per subunit.,domain:Desintegrin domain binds to integrin alphaV-beta3.,domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of

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the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,domain:The cytoplasmic domain interacts with endophilin I and sorting nexin 9.,function:May be involved in cell-surface proteolysis, cell adhesion or intracellular protein maturation.,PTM:Phosphorylation increases association with PTKs.,PTM:The precursor is cleaved by a furin endopeptidase.,similarity:Contains 1 disintegrin domain.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 peptidase M12B domain.,subunit:Interacts with ITAGV-ITGB3 (vitronectin receptor), PACSIN3 and SNX9. PACSIN3 and SNX9 preferentially bind the precursor but not the processed f

**Background**

ADAM metalloproteinase domain 15(ADAM15) Homo sapiens The protein encoded by this gene is a member of the ADAM (a disintegrin and metalloproteinase) protein family. ADAM family members are type I transmembrane glycoproteins known to be involved in cell adhesion and proteolytic ectodomain processing of cytokines and adhesion molecules. This protein contains multiple functional domains including a zinc-binding metalloprotease domain, a disintegrin-like domain, as well as a EGF-like domain. Through its disintegrin-like domain, this protein specifically interacts with the integrin beta chain, beta 3. It also interacts with Src family protein-tyrosine kinases in a phosphorylation-dependent manner, suggesting that this protein may function in cell-cell adhesion as well as in cellular signaling. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images