10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADAM9 Rabbit pAb

Catalog # AP97561

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13443
Other Accession	Q13443
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90556
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ADAM9
Epitope Specificity	256-360/819
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 disintegrin domain. Contains 1 EGF-like domain. Contains 1 peptidase M12B domain.
SUBUNIT	Interacts with SH3GL2 and SNX9 through its cytoplasmic tail.
DISEASE	Cone-rod dystrophy 9 (CORD9) [MIM:612775]: An inherited retinal dystrophy characterized by retinal pigment deposits visible on fundus examination, predominantly in the macular region, and initial loss of cone photoreceptors followed by rod degeneration. This leads to decreased visual acuity and sensitivity in the central visual field, followed by loss of peripheral vision. Severe loss of vision occurs earlier than in retinitis pigmentosa. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	8754
Other Names	ADAM9_HUMAN; ADAM9; ADAM 9; Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma

	cell metalloproteinase; 3.4.24.-; KIAA0021; MCMP; MDC9; MLTNG; ADAM9_MOUSE; ADAM metallopeptidase domain 9; a disintegrin and metalloproteinase domain 9 (meltrin gamma); cone rod dystrophy 9; meltrin gamma
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ADAM9
Synonyms	KIAA0021, MCMP, MDC9, MLTNG
Function	Metalloprotease that cleaves and releases a number of molecules with important roles in tumorigenesis and angiogenesis, such as TEK, KDR, EPHB4, CD40, VCAM1 and CDH5. May mediate cell-cell, cell- matrix interactions and regulate the motility of cells via interactions with integrins.
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Widely expressed. Expressed in chondrocytes. Isoform 2 is highly expressed in liver and heart

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