

Integrin alpha 9 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56332**Specification****Integrin alpha 9 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q13797
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	112 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Integrin alpha 9
Epitope Specificity	51-150/1035
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Type I membrane protein.
SIMILARITY	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
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 an alpha integrin. Integrins are heterodimeric integral membrane glycoproteins composed of an alpha chain and a beta chain that mediate cell-cell and cell-matrix adhesion. The protein encoded by this gene, when bound to the beta 1 chain, forms an integrin that is a receptor for VCAM1, cytotactin and osteopontin. Expression of this gene has been found to be upregulated in small cell lung cancers. [provided by RefSeq, Jul 2008]

Integrin alpha 9 Polyclonal Antibody - Additional Information**Gene ID** 3680**Other Names**

Integrin alpha-9, Integrin alpha-RLC, ITGA9

Target/Specificity

In airway epithelium, in the basal layer of squamous epithelium, and in smooth muscle, skeletal muscle, and hepatocytes. Abundantly expressed in fetal lung and lung cancers.

Dilution

IHC-P ~ ~ N/A
IHC-F ~ ~ N/A

="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

Integrin alpha 9 Polyclonal Antibody - Protein Information

Name ITGA9

Function

Integrin alpha-9/beta-1 (ITGA9:ITGB1) is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D- G-I-E-L in cytotactin. ITGA9:ITGB1 may play a crucial role in SVEP1/polydom-mediated myoblast cell adhesion (By similarity). Integrin ITGA9:ITGB1 represses PRKCA-mediated L-type voltage-gated channel Ca(2+) influx and ROCK-mediated calcium sensitivity in vascular smooth muscle cells via its interaction with SVEP1, thereby inhibiting vasocontraction (PubMed:35802072).

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

Expressed in vascular smooth muscle cells (at protein level) (PubMed:35802072). Expressed in the airway epithelium (at protein level) (PubMed:8245132).

Integrin alpha 9 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Integrin alpha 9 Polyclonal Antibody - Images