

Integrin alpha 9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56332

Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q13797</u>

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 114489
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]

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=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-

10000

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 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.