For Research Use Only

Integrin Alpha 3 Polyclonal antibody

Catalog Number:21992-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
21992-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17293

GenBank Accession Number:
BC150190

GeneID (NCBI):
3675

UNIPROT ID:
P26006

Full Name:
integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)

Calculated MW:
1066 aa, 119 kDa

Observed MW:
130-160 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:500-1:2000

Applications

Tested Applications:
WB, IP, IF/ICC, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, human heart tissue, human testis tissue, PC-3 cells

IP : PC-3 cells,

IHC : mouse colon tissue,

IF/ICC : A549 cells,

Background Information

ITGA3, also named as MSK18, CD49c, GAPB3 and FRP-2, belongs to the integrin alpha chain family. It is a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. ITGA3 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. ITGA3 is highly concentrated in epithelial cells where it strongly adheres to Laminin-5 and Laminin-5 induced rapid adhesion can be blocked by antibodies against the alpha-3 integrin subunit. It can be cleaved into heavy chain(840aa) and light chain(176aa). This antibody can recognize the heavy chain.

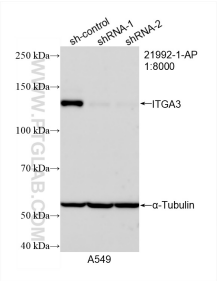
Notable Publications

Author	Pubmed ID	Journal	Application
Eunnyung Bae	35879332	Nat Commun	WB,IF
Qiqiao Du	32117712	Front Oncol	WB
Giuseppe Valerio De Gaetano	38511003	Front Microbiol	IF

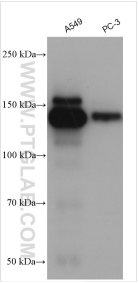
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

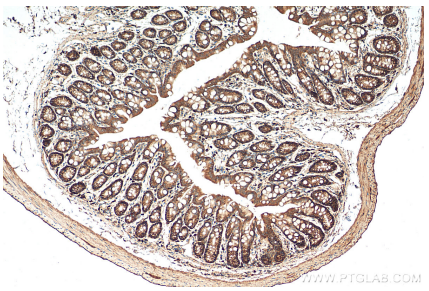
Selected Validation Data



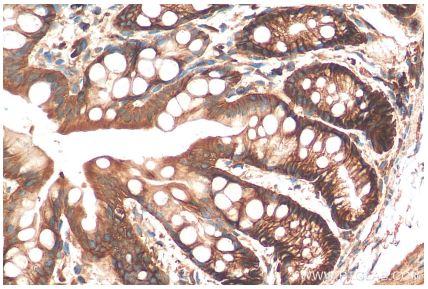
WB result of Integrin Alpha 3 antibody (21992-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Integrin Alpha 3 transfected A549 cells.



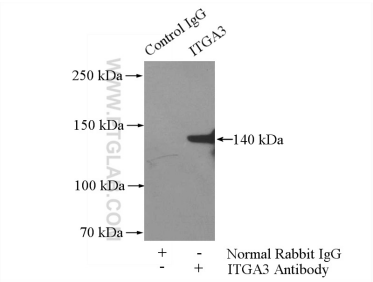
A549 cells were subjected to SDS PAGE followed by western blot with 21992-1-AP (Integrin Alpha 3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



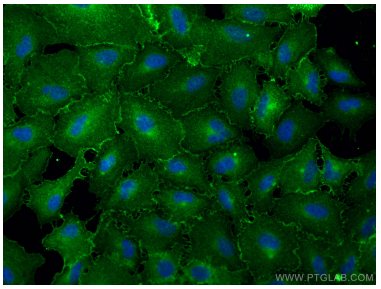
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 21992-1-AP (Integrin Alpha 3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 21992-1-AP (Integrin Alpha 3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Integrin Alpha 3 (IP:21992-1-AP, 4ug; Detection:21992-1-AP 1:500) with PC-3 cells lysate 1200ug.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using Integrin Alpha 3 antibody (21992-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).