

For Research Use Only

# Integrin alpha-8 Polyclonal antibody

Catalog Number: 30714-1-AP



## Basic Information

<b>Catalog Number:</b> 30714-1-AP	<b>GenBank Accession Number:</b> NM_003638	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8516	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P53708	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> integrin, alpha 8	IF-P 1:50-1:500
<b>Immunogen Catalog Number:</b> AG33507	<b>Calculated MW:</b> 117 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, Mouse, Rat	<b>WB :</b> mouse lung tissue, rat lung tissue, rat spleen tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse lung tissue,
	<b>IF-P :</b> mouse lung tissue,

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated  $\alpha$  and  $\beta$  subunits. Integrin alpha-8 is a single-pass type I membrane protein that forms a heterodimer with integrin beta-1 to serve as a receptor for RGD-containing matrix molecules (fibronectin, vitronectin, tenascin C, osteopontin, and nephronectin) (PMID: 33000355). Integrin alpha-8 beta-1 plays a critical role in epithelial-mesenchymal interactions and functions in the genesis of kidney and probably of other organs (PMID: 9054500; 19769957). The apparent molecular weight of integrin alpha-8 is larger than the calculated molecular weight of 117 kDa, possibly due to glycosylation (PMID: 7768999).

## Storage

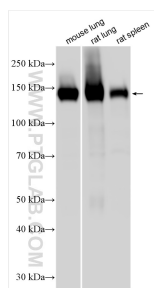
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

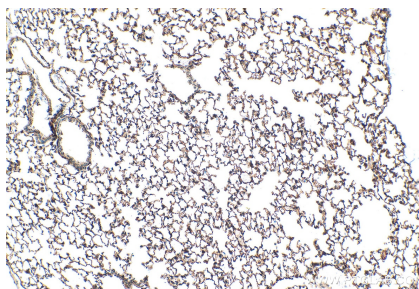
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

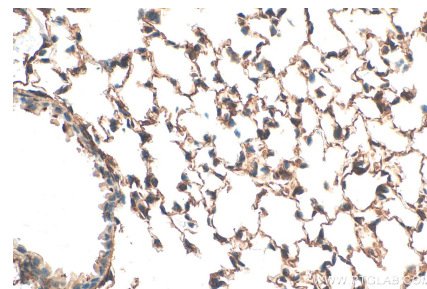
## Selected Validation Data



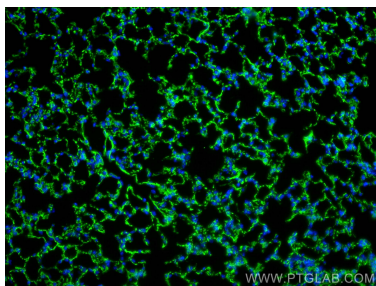
Various lysates were subjected to SDS PAGE followed by western blot with 30714-1-AP (Integrin alpha-8 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



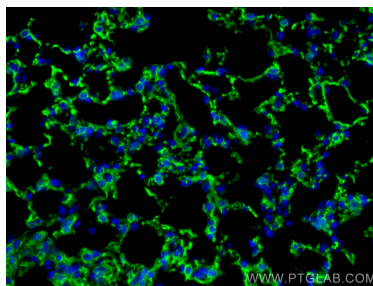
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 30714-1-AP (Integrin alpha-8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 30714-1-AP (Integrin alpha-8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse lung tissue using Integrin alpha-8 antibody (30714-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse lung tissue using Integrin alpha-8 antibody (30714-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).