

Integrin alpha-8 Polyclonal antibody

Catalog Number: 30714-1-AP

Basic Information

Catalog Number: 30714-1-AP	GenBank Accession Number: NM_003638	Purification Method: Antigen affinity purification
Size: 400 µg/ml	GeneID (NCBI): 8516	Recommended Dilutions:
Source: Rabbit	UNIPROT ID: P53708	WB 1:500-1:2000
Isotype: IgG	Full Name: integrin, alpha 8	IHC 1:50-1:500
Immunogen Catalog Number: AG33507	Calculated MW: 117 kDa	IF-P 1:50-1:500
	Observed MW: 140 kDa	

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat

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: mouse lung tissue, rat lung tissue, rat spleen tissue

IHC: mouse lung tissue,

IF-P: mouse lung tissue,

Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated α and β 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:

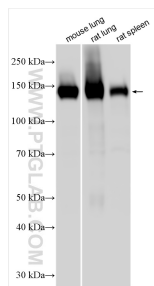
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

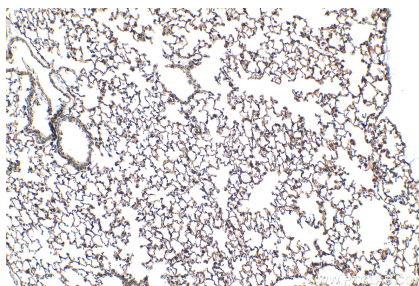
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

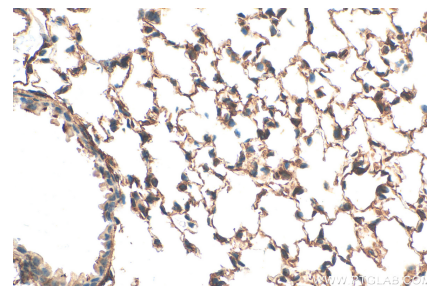
Selected Validation Data



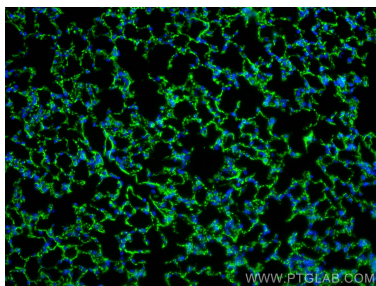
Various lysates were subjected to SDS PAGE followed by western blot with 30714-1-AP (Integrin alpha-8 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



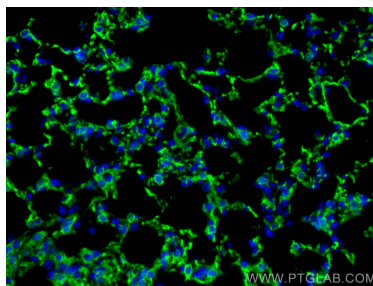
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 30714-1-AP (Integrin alpha-8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure 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 AffiniPure Goat Anti-Rabbit IgG(H+L).