

For Research Use Only

# Integrin Beta 7 Polyclonal antibody

Catalog Number: 11328-1-AP

4 Publications



## Basic Information

<b>Catalog Number:</b> 11328-1-AP	<b>GenBank Accession Number:</b> BC015916	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3695	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> integrin, beta 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 798 aa, 87 kDa	
<b>Immunogen Catalog Number:</b> AG1871	<b>Observed MW:</b> 87-100 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse

**Positive Controls:**

**WB:** THP-1 cells, human lung tissue, K-562 cells, mouse spleen tissue

**IHC:** human tonsillitis tissue,

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

## Background Information

ITGB7 (integrin, beta7) is a single-pass type I membrane protein that belongs to the integrin beta chain family. The integrins are a large family of cell-surface glycoprotein receptors that play key roles in leucocyte adhesion, signalling, proliferation and migration by binding as heterodimers to specific ligands. The beta7 integrin associates with alpha4 integrin to form a heterodimer, alpha4/beta7, which interacts with MADCAM1, VCAM, fibronectin, and may also interact with HIV-1 gp120. The beta7 integrin can also form a heterodimer with alphaE integrin, and the dimer, alphaE/beta7 integrin, is a receptor for E-cadherin. ITGB7 is expressed in a variety of leukocyte lines.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tong Sun	33627137	Cell Commun Signal	WB
Gilad Halpert	24764299	J Biol Chem	IF
Shan Fu	37926366	Cell Mol Gastroenterol Hepatol	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

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

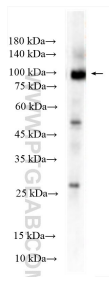
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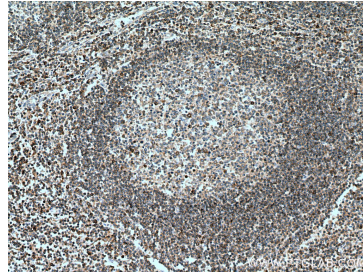
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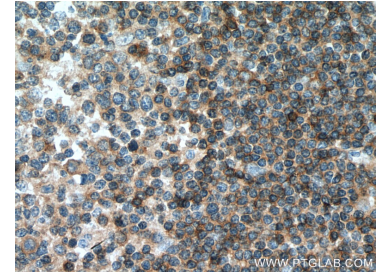
## Selected Validation Data



THP-1 cells were subjected to SDS PAGE followed by western blot with 11328-1-AP (Integrin Beta 7 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 11328-1-AP (Integrin Beta 7 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 human tonsillitis tissue slide using 11328-1-AP (Integrin Beta 7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).