

For Research Use Only

# Integrin Beta 1 Polyclonal antibody

Catalog Number: 12594-1-AP

Featured Product

63 Publications



## Basic Information

Catalog Number:

12594-1-AP

Size:

900 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3078

GenBank Accession Number:

BC020057

GeneID (NCBI):

3688

ENSEMBL Gene ID:

ENSG00000150093

UNIPROT ID:

P05556

Full Name:

integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)

Calculated MW:

88 kDa

Observed MW:

130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

## Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, chicken, sika deer, rat, mouse, bovine

**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 : HT-1080 cells, HeLa cells

IHC : human placenta tissue, human breast cancer tissue, mouse kidney tissue

## Background Information

Integrin beta-1 (ITGB1), also named as CD29, is a 130 kDa single chain type I glycoprotein that is expressed in a heterodimeric complex with one of six distinct  $\alpha$  subunits, comprising the very late activation antigen (VLA) subfamily of adhesion receptors. It is one of the essential surface molecules expressed on human MSC from bone marrow and other sources. The  $\beta$  1 subunit is also broadly expressed on lymphocytes and monocytes, weakly expressed on granulocytes, and not expressed on erythrocytes. These receptors are involved in a variety of cell-cell and cell-matrix interactions.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qiaoyan Yu	36155064	Biochem Biophys Res Commun	WB
Lele Niu	36068215	Cell Discov	IHC, IF
Huijiao Lv	36120570	Front Cell Dev Biol	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

For technical support and original validation data for this product please contact:

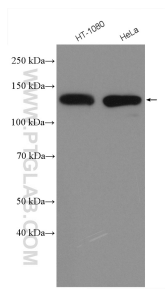
T: 4006900926

E: Proteintech-CN@ptglab.com

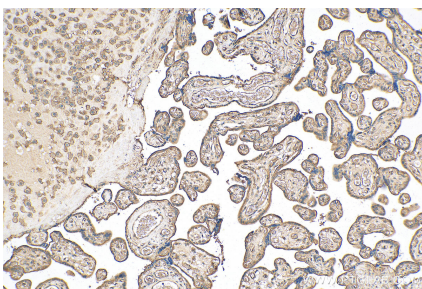
W: ptgcn.com

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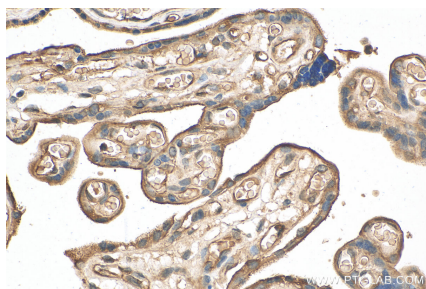
Selected Validation Data



HT-1080 cells were subjected to SDS PAGE followed by western blot with 12594-1-AP (Integrin Beta 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 12594-1-AP (Integrin Beta 1 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 placenta tissue slide using 12594-1-AP (Integrin Beta 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).