

## 35-1784: Polyclonal Antibody to Integrin beta1 (CD29)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Human,Mouse,Rat
<b>Gene :</b>	ITGB1
<b>Gene ID :</b>	3688
<b>Uniprot ID :</b>	P05556
<b>Format :</b>	Purified
<b>Alternative Name :</b>	FNRB, MDF2, VLAB, MSK12, ITGB1
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Peptide sequence around aa.790~794 (V-V-N-P-K) derived from Human Integrin b1 (CD29).

### Description

Integrins  $\alpha$ -1/ $\beta$ -1,  $\alpha$ -2/ $\beta$ -1,  $\alpha$ -10/ $\beta$ -1 and  $\alpha$ -11/ $\beta$ -1 are receptors for collagen. Integrins  $\alpha$ -1/ $\beta$ -1 and  $\alpha$ -2/ $\beta$ -2 recognize the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Integrins  $\alpha$ -2/ $\beta$ -1,  $\alpha$ -3/ $\beta$ -1,  $\alpha$ -4/ $\beta$ -1,  $\alpha$ -5/ $\beta$ -1,  $\alpha$ -8/ $\beta$ -1,  $\alpha$ -10/ $\beta$ -1,  $\alpha$ -11/ $\beta$ -1 and  $\alpha$ -V/ $\beta$ -1 are receptors for fibronectin.  $\alpha$ -4/ $\beta$ -1 recognizes one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. Integrin  $\alpha$ -5/ $\beta$ -1 is a receptor for fibrinogen. Integrin  $\alpha$ -1/ $\beta$ -1,  $\alpha$ -2/ $\beta$ -1,  $\alpha$ -6/ $\beta$ -1 and  $\alpha$ -7/ $\beta$ -1 are receptors for laminin. Integrin  $\alpha$ -4/ $\beta$ -1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin  $\alpha$ -9/ $\beta$ -1 is a receptor for VCAM1, cytostatin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytostatin. Integrin  $\alpha$ -3/ $\beta$ -1 is a receptor for epiligrin, thrombospondin and CSPG4.  $\alpha$ -3/ $\beta$ -1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. Integrin  $\alpha$ -V/ $\beta$ -1 is a receptor for vitronectin.  $\beta$ -1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform  $\beta$ -1B interferes with isoform  $\beta$ -1A resulting in a dominant negative effect on cell adhesion and migration (in vitro). In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. When associated with  $\alpha$ -7/ $\beta$ -1 integrin, regulates cell adhesion and laminin matrix deposition. Involved in promoting endothelial cell motility and angiogenesis. May be involved in up-regulation of the activity of kinases such as PKC via binding to KRT1. Together with KRT1 and GNB2L1/RACK1, serves as a platform for SRC activation or inactivation. Plays a mechanistic adhesive role during telophase, required for the successful completion of cytokinesis

### Product Info

<b>Amount :</b>	50 $\mu$ l / 100 $\mu$ l
<b>Content :</b>	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Predicted MW: 115 135kd, Western blotting: 1:500~1:1000

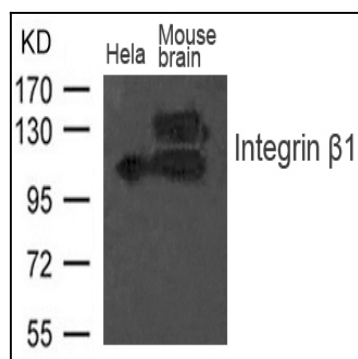


Figure 1: Western blot analysis of extract from Mouse brain tissue and HeLa cells using Integrin  $\beta 1$ (CD29) Antibody 35-1784