


## Product datasheet

# Anti-Integrin beta 4 (phospho Y1526) antibody ab29044

★★★★★ [1 Abreviews](#) [1 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Anti-Integrin beta 4 (phospho Y1526) antibody
<b>Description</b>	Rabbit polyclonal to Integrin beta 4 (phospho Y1526)
<b>Host species</b>	Rabbit
<b>Specificity</b>	The immunogen sequence used is found in all three integrin beta4 isoforms and is highly conserved in rat and mouse integrin beta4.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Integrin beta 4 (phospho Y1526) conjugated to keyhole limpet haemocyanin.
<b>Positive control</b>	A431 and src-transformed Hct116 cells treated with pervanadate.
<b>General notes</b>	<p>The cytoplasmic domain of the integrin-<math>\beta 4</math> subunit recruits the adaptor protein Shc and is required for assembly of hemidesmosomes. Tyrosine phosphorylation of multiple sites within the cytoplasmic domain regulates these cellular events. In particular, tyrosine 1526 interacts with the phosphotyrosine binding domain of Shc and is required for Shc activation. In addition, tyrosine 1494 is required for integrin-mediated IRS-2 phosphorylation and activation of PI3-kinase. More importantly, this site is critical for integrin <math>\alpha 6 \beta 4</math> increases in carcinoma invasion.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide

	Constituents: PBS, 50% Glycerol, 0.1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was cross-adsorbed to phospho-tyrosine coupled to agarose and to dephosphorylated integrin beta4 (Tyr-1526) peptide before affinity purification using phospho-integrin beta-4(Tyr-1526) peptide (without carrier).
<b>Primary antibody notes</b>	The cytoplasmic domain of the integrin-β4 subunit recruits the adaptor protein Shc and is required for assembly of hemidesmosomes. Tyrosine phosphorylation of multiple sites within the cytoplasmic domain regulates these cellular events. In particular, tyrosine 1526 interacts with the phosphotyrosine binding domain of Shc and is required for Shc activation. In addition, tyrosine 1494 is required for integrin-mediated IRS-2 phosphorylation and activation of PI3-kinase. More importantly, this site is critical for integrin α6β4 increases in carcinoma invasion.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab29044 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Detects a band of approximately 202 kDa.

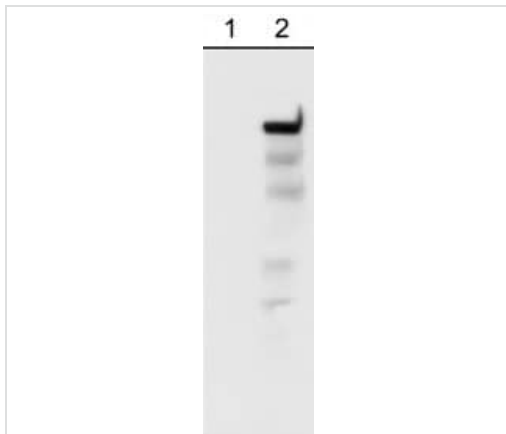
## Target

<b>Function</b>	Integrin alpha-6/beta-4 is a receptor for laminin. It plays a critical structural role in the hemidesmosome of epithelial cells.
<b>Tissue specificity</b>	Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoform beta-4D is also expressed in colon and placenta. Isoform beta-4E is also expressed in epidermis, lung, duodenum, heart, spleen and stomach.
<b>Involvement in disease</b>	Defects in ITGB4 are a cause of epidermolysis bullosa letalis with pyloric atresia (EB-PA) [MIM:226730]; also known as junctional epidermolysis bullosa with pyloric atresia (PA-JEB) or aplasia cutis congenita with gastrointestinal atresia. EB-PA is an autosomal recessive, frequently lethal, epidermolysis bullosa with variable involvement of skin, nails, mucosa, and with variable effects on the digestive system. It is characterized by mucocutaneous fragility, aplasia cutis congenita, and gastrointestinal atresia, which most commonly affects the pylorus. Pyloric atresia is a primary manifestation rather than a scarring process secondary to epidermolysis bullosa. Defects in ITGB4 are a cause of generalized atrophic benign epidermolysis bullosa (GABEB) [MIM:226650]. GABEB is a non-lethal, adult form of junctional epidermolysis bullosa characterized by life-long blistering of the skin, associated with hair and tooth abnormalities.
<b>Sequence similarities</b>	Belongs to the integrin beta chain family. Contains 1 Calx-beta domain. Contains 4 fibronectin type-III domains. Contains 1 PSI domain. Contains 1 VWFA domain.
<b>Domain</b>	The fibronectin type-III-like domains bind BPAG1 and plectin and probably also recruit BP230.

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## Images

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Western blot - Anti-Integrin beta 4 (phospho Y1526) antibody (ab29044)

**All lanes :** Anti-Integrin beta 4 (phospho Y1526) antibody (ab29044)

**Lane 1 :** A431 cell lysate, starved

**Lane 2 :** A431 cell lysate, treated with pervanadate for 30 min

The top band in each lane is 200 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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