

Anti-Integrin $\beta 4$ (Tyr-1526), Phosphospecific Antibody

Catalog # AN1826

Product Information

Application	WB, ICC
Primary Accession	P16144
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	202167

Additional Information

Gene ID	3691
Other Names	integrin, CD104, GP150

Target/Specificity	The NF- κ B/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory I κ B proteins. Activation of I κ B α occurs through both serine and tyrosine phosphorylation events. Activation through phosphorylation at Ser-32 and Ser-36 is followed by proteasome-mediated degradation, resulting in the release and nuclear translocation of active NF- κ B. This pathway of I κ B α regulation occurs in response to various NF- κ B-activating agents, such as TNF α , interleukins, LPS, and irradiation. An alternative pathway for I κ B α regulation occurs through tyrosine phosphorylation of Tyr-42 and Tyr-305. Tyr-42 is phosphorylated in response to oxidative stress and growth factors. This phosphorylation can lead to degradation of I κ B α and NF- κ B-activation. In contrast, Tyr-305 phosphorylation by c-Abl has been implicated in I κ B α nuclear translocation and inhibition of NF- κ B-activation. Thus, tyrosine phosphorylation of I κ B α may be an important regulatory mechanism in NF- κ B signaling.
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Dilution	WB~~1:1000 ICC~~N/A
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Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
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Precautions	Anti-Integrin $\beta 4$ (Tyr-1526), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
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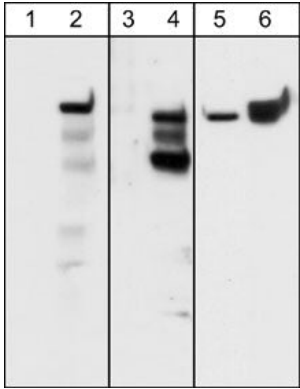
Shipping	Blue Ice
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Background

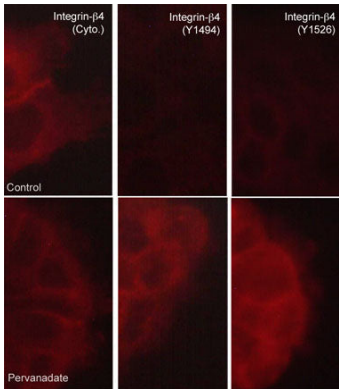
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Images



Western blot analysis of A431 cells serum starved overnight (lanes 1, 3, & 5) and treated with pervanadate (1 mM) for 30 min (lanes 2, 4, & 6). The blots were probed with rabbit polyclonal anti-Integrin β 4 (Tyr-1526) (lanes 1 & 2) and anti-Integrin β 4 (Tyr-1494) (lanes 3 & 4) or with mouse monoclonal anti-Integrin β 4 (lanes 5 & 6).



Immunocytochemical labeling of integrin β 4 in control (Top) and pervanadate-treated A431 cells (Bottom). The cells were labeled with mouse monoclonal anti-integrin β 4 (Cytoplasmic region) (left) or rabbit polyclonals anti-integrin β 4 (Tyr-1494) (middle) or anti-integrin β 4 (Tyr-1526) (right), then the antibodies were detected using appropriate secondary antibodies conjugated to DyLight® 594.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.