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Datasheet

ITGB4 (phospho Y1526) polyclonal antibody

Catalog Number: PAB7916

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic phosphopeptide of ITGB4.

Immunogen: Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y1526 of human ITGB4.

Host: Rabbit

Reactivity: Human,Mouse,Rat

Applications: ELISA, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This peptide sequence is found in all three integrin-b4 isoforms and is highly conserved in rat and mouse integrin-b4.

Form: Liquid

Recommend Usage: ELISA (1:2000)
Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3691

Gene Symbol: ITGB4

Gene Alias: CD104

Gene Summary: Integrins are heterodimers comprised of alpha and beta subunits, that are noncovalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta 4 subunit, a receptor for the laminins. This subunit tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Mutations in this gene are associated with epidermolysis bullosa with pyloric atresia. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

References:

1. Identification of insulin receptor substrate 1 (IRS-1) and IRS-2 as signaling intermediates in the alpha6beta4 integrin-dependent activation of phosphoinositide 3-OH kinase and promotion of invasion. Shaw LM. Mol Cell Biol. 2001 Aug;21(15):5082-93.
2. Tyrosine phosphorylation of the beta 4 integrin cytoplasmic domain mediates Shc signaling to extracellular signal-regulated kinase and antagonizes formation of hemidesmosomes. Dans M, Gagnoux-Palacios L, Blaikie P, Klein S, Mariotti A, Giancotti FG. J Biol Chem. 2001 Jan 12;276(2):1494-502.