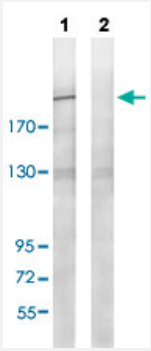
ITGB4 (phospho Y1510) polyclonal antibody

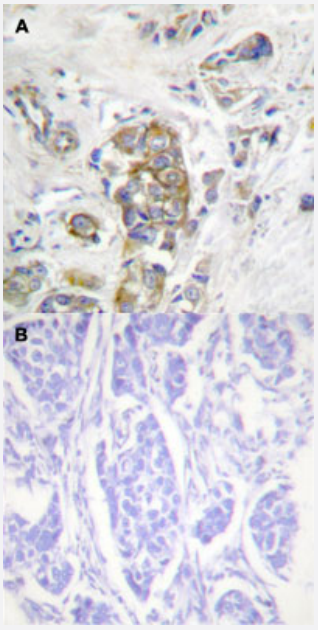
Catalog # PAB29281 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Na_2VO_3 treated HepG2 cells, Lane 2: antigen-specific peptide treated HepG2 cells with ITGB4 (phospho Y1510) polyclonal antibody (Cat# PAB29281) at 1:500-1:1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer tissue with ITGB4 (phospho Y1510) polyclonal antibody (Cat# PAB29281) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of human ITGB4.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y1510 of human ITGB4.

Host	Rabbit
Theoretical MW (kDa)	202
Reactivity	Human, Mouse, Rat
Specificity	ITGB4 (phospho Y1510) polyclonal antibody detects endogenous levels of human ITGB4 only when phosphorylated at tyrosine 1510.
Form	Liquid
Purification	Affinity Chromatography
Recommend Usage	Immunohistochemistry (1:50~1:100) Western Blot (1:500~1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Gene Info — ITGB4

Entrez GeneID	3691
Protein Accession#	P16144
Gene Name	ITGB4
Gene Alias	CD104

Gene Description	integrin, beta 4
Omim ID	131800 147557 226650 226730
Gene Ontology	Hyperlink
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
Other Designations	CD104 antigen|GP150|integrin beta 4|integrin beta-4 subunit

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- ECM-receptor interaction
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Regulation of actin cytoskeleton

Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease