# Integrin β4 (Phospho Tyr1510) Rabbit pAb

CatalogNo: YP0755 Orthogonal Validated

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 202kD (Observed)

Isotype
- IgG

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Recommended Dilution Ratios

**WB 1:500-1:2000**
**IHC 1:100-1:300**
**ELISA 1:10000**
**IF 1:50-200**

## Basic Information

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|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human ITGB4 around the phosphorylation site of Tyr1510. AA range:1481-1530 |

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|---|---|
| **Specificity** | Phospho-Integrin β4 (Y1510) Polyclonal Antibody detects endogenous levels of Integrin β4 protein only when phosphorylated at Y1510.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RDyST |

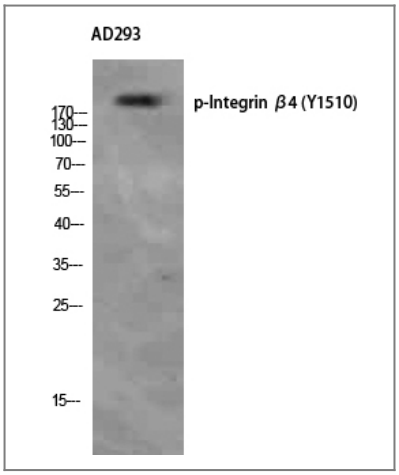
## Target Information

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|---|---|
| **Gene name** | ITGB4 |
| **Protein Name** | Integrin beta-4 |

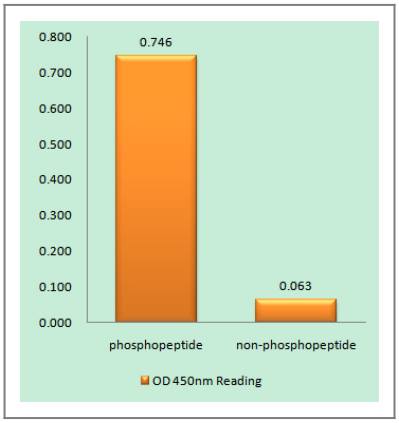
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 3691; | P16144; |
| Mouse | | A2A863; |
| Rat | 25724; | Q64632; |

| | |
|---|---|
| **Cellular Localization** | Cell membrane; Single-pass type I membrane protein. Cell membrane; Lipid-anchor. Cell junction , hemidesmosome. Colocalizes with DST at the leading edge of migrating keratinocytes. |
| **Tissue specificity** | 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. |
| **Function** | Disease: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. ,Disease: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. ,Domain:The fibronectin type-III-like domains bind BPAG1 and plectin and probably also recruit BP230. ,Function:Integrin alpha-6/beta-4 is a receptor for laminin. It plays a critical structural role in the hemidesmosome of epithelial cells. ,similarity:Belongs to the integrin beta chain family. ,similarity:Contains 1 Calx-beta domain. ,similarity:Contains 1 VWFA domain. ,similarity:Contains 4 fibronectin type-III domains. ,subunit:Heterodimer of an alpha and a beta subunit. Beta-4 associates with alpha-6. ,tissue specificity: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. , |

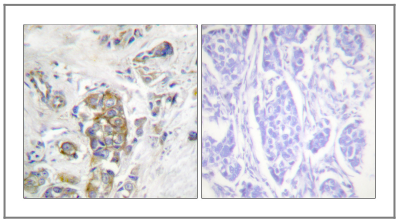
# Validation Data



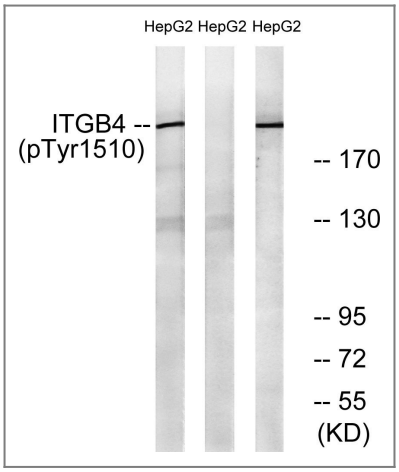

Western Blot analysis of AD293 using Phospho-Integrin β4 (Y1510) Polyclonal Antibody. Antibody was diluted at 1:500




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ITGB4 (Phospho-Tyr1510) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ITGB4 (Phospho-Tyr1510) Antibody. The picture on the right is blocked with the phospho peptide.




Western blot analysis of lysates from HepG2 cells treated with Na2VO3 0.3nM 40', using ITGB4 (Phospho-Tyr1510) Antibody. The lane on the right is blocked with the phospho peptide.

# Contact information

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Please scan the QR code to access additional product information:
**Integrin β4 (Phospho Tyr1510) Rabbit pAb**

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