

# Anti-Integrin beta 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

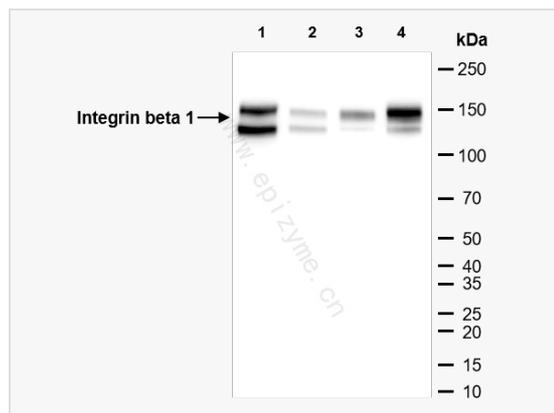
Catalog # R013952

## Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	46C78P70
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Integrin beta 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Integrin beta 1 Rabbit mAb [46C78P70] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Synonyms	beta1 integrin, CD_antigen=CD29, CD29, Fibronectin receptor subunit beta, FNRB, Glycoprotein IIa, GP IIa, GPIIA, Integrin beta-1, Integrin subunit beta 1, integrin VLA-4 beta subunit, Integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12), ITB1_HUMAN, ITGB1, MDF2, MSK12, OTTHUMP00000019420, very late activation protein, Very late activation protein, beta polypeptide, VLA BETA, VLA-4 subunit beta, VLA-BETA, VLAB, VLAbeta.
Calculated MW	Calculated MW: 88 kDa; Observed MW: 120 kDa, 140 kDa
Uniprot ID	P05556
Gene ID	3688
Background	Integrins are $\alpha/\beta$ heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival. The integrin family contains at least 18 $\alpha$ and 8 $\beta$ subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities.
Cellular Location	Cell membrane, sarcolemma. Cell junction. In cardiac muscle, isoform 5 is found in costameres and intercalated disks and Cell membrane. Cell projection, invadopodium membrane. Cell projection, ruffle membrane. Recycling endosome. Melanosome. Cleavage furrow. Cell projection, lamellipodium. Cell projection, ruffle. Cell junction, focal adhesion. Cell surface. Isoform 2 does not localize to focal adhesions. Highly enriched in stage I melanosomes. Located on plasma membrane of neuroblastoma NMB7 cells. In a lung cancer cell line, in prometaphase and metaphase, localizes diffusely at the membrane and in a few intracellular vesicles. In early telophase, detected mainly on the matrix-facing side of the cells. By mid-telophase, concentrated to the ingressing cleavage furrow, mainly to the basal side of the furrow. In late telophase, concentrated to the extending protrusions formed at the opposite ends of the spreading daughter cells. in vesicles at the base of the lamellipodia formed by the



Western Blot - Anti-Integrin beta 1 Rabbit mAb [46C78P70]

All lanes: R013952 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

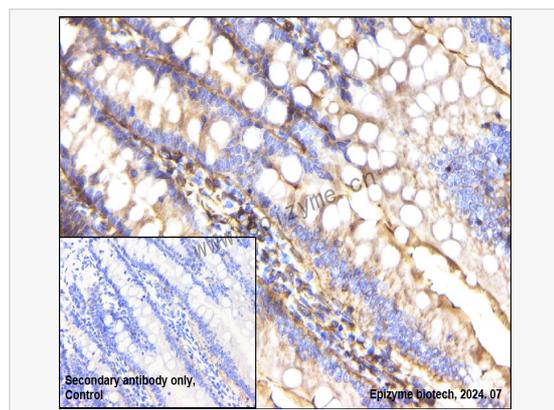
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 88 kDa

Observed band size: 120 kDa, 140 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Integrin beta 1 Rabbit mAb [46C78P70]

Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013952 at 1:200 dilution

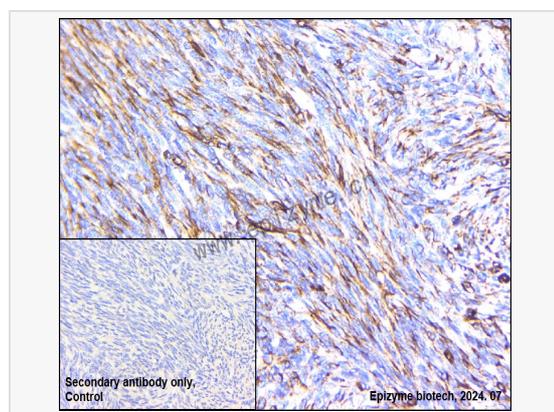
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Integrin beta 1 Rabbit mAb [46C78P70]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013952 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.